COMPUTER SYSTEMS AND METHODS FOR CONSTRUCTING BIOLOGICAL CLASSIFIERS AND USES THEREOF

This application is entitled to and claims priority benefit under 35 U.S.C. Section 119(e) to U.S. provisional application Number 60/581,312, filed June 19, 2004, U.S. provisional application Number 60/581,977, filed June 21, 2004, U.S. provisional application Number 60/643,475, filed January 12, 2005, and U.S. provisional application

5   Number 60/663,722, filed March 22, 2005, each of which is incorporated herein by reference in its entirety.

1.   FIELD OF THE INVENTION

The field of this invention relates to computer systems and methods to identify classifiers using data obtained from blood. The invention further encompasses the use of

10   the classifiers and combinations of molecular markers identified by the classifiers in a wide variety of applications including: diagnosis; prognosis; prediction of disease, stage of disease or disease risk; monitoring disease progression and/or regression; monitoring disease reoccurrence and identifying risk of disease reoccurrence; determining and/or predicting response to treatment and/or treatment outcomes; monitoring and/or predicting

15   treatment compliance or non compliance and the like.

Table	DESCRIPTION	SIZE	Date Recorded	Text File Name
IA	Sequence Related Table regarding Comorbid Hypertension	96KB	June 17, 2005	TABLE1A.TXT
IB	Sequence Related Table regarding Comorbid Obesity	102KB	June 17, 2005	TABLE1B.TXT
1C	Sequence Related Table regarding Comorbid Allergies	49KB	June 17, 2005	TABLE1C.TXT
ID	Sequence Related Table regarding Comorbid Systemic Steroids	59KB	June 17, 2005	TABLE10.TXT
IE	Sequence Related Table regarding Hypertension (Chondro)	204KB	June 17, 2005	TABLE1E.TXT
IF	Sequence Related Table regarding Obesity (Chondro)	251KB	June 17, 2005	TABLE1F.TXT
IG	Sequence Related Table regarding CoMorbid Hypertension Only	57KB	June 17, 2005	TABLE1G.TXT
IH	Sequence Related Table regarding Hypertension OA Shared	23KB	June 17, 2005	TABLE1H.TXT
II	Sequence Related Table regarding Comorbid Obesity Only	60KB	June 17, 2005	TABLE1I.TXT

IJ	Sequence Related Table regarding Obesity OA Shared	18KB	June 17, 2005	TABLE1J.TXT
IK	Sequence Related Table regarding Comorbid Allergy Only	28KB	June 17, 2005	TABLE1K.TXT
IL	Sequence Related Table regarding Allergy OA Shared	19KB	June 17, 2005	TABLE1L.TXT
IM	Sequence Related Table regarding Comorbid Steroid Shared	40KB	June 17, 2005	TABLE1M.TXT
IN	Sequence Related Table regarding Steroid OA Shared	23KB	June 17, 2005	TABLE1N.TXT
10	Sequence Related Table regarding Differentiating Systemic Steroids (	49KB	June 17, 2005	TABLE1O.TXT
IP	Sequence Related Table regarding Diabetes	118KB	June 17, 2005	TABLE1P.TXT
IQ	Sequence Related Table regarding Hyperlipidemia	165KB	June 17, 2005	TABLE1Q.TXT
IR	Sequence Related Table regarding Lung Disease	102KB	June 17, 2005	TABLE1R.TXT
IS	Sequence Related Table regarding Bladder Cancer	830KB	June 17, 2005	TABLE1S.TXT
IT	Sequence Related Table regarding Bladder Cancer Staging	483KB	June 17, 2005	TABLE1T.TXT
IU	Sequence Related Table regarding Coronary Artery Disease	657KB	June 17, 2005	TABLE1U.TXT
IV	Sequence Related Table regarding Rheumatoid Arthritis	380KB	June 17, 2005	TABLE1V.TXT
IW	Sequence Related Table regarding Rheumatoid Arthritis	183KB	June 17, 2005	TABLE1W.TXT
IX	Sequence Related Table regarding Depression	165KB	June 17, 2005	TABLE1X.TXT
IY	Sequence Related Table regarding OAStaging	32KB	June 17, 2005	TABLE1Y.TXT
IZ	Sequence Related Table regarding Liver Cancer	19KB	June 17, 2005	TABLE1Z.TXT
IZb	Seqeuence Related Table regarding Liver Cancer	430KB	June 17, 2005	TABLE1Z.TXT
IAA	Sequence Related Table regarding Schizophrenia	592KB	June 17, 2005	TABLE1AA.TXT
IAB	Sequence Related Table regarding Chagas Disease	142KB	June 17, 2005	TABLE1AB.TXT
IAC	Sequence Related Table regarding Asthma (Chondro)	64KB	June 17, 2005	TABLE1AC.TXT
IAD	Sequence Related Table regarding Asthma (Affy)	57KB	June 17, 2005	TABLE1AD.TXT

IAE	Sequence Related Table regarding Lung Cancer	118KB	June 17, 2005	TABLE 1AE.TXT
IAG	Sequence Related Table regarding Hypertension (Afrymetrix)	157KB	June 17, 2005	TABLE1AG.TXT
IAH	Sequence Related Table regarding Obesity (Affymetrix)	203KB	June 17, 2005	TABLE1AH.TXT
IAI	Sequence Related Table regarding Ankylosing Spondylitis (Afify)	267KB	June 17, 2005	TABLE1AI.TXT
2	Sequence Related Table regarding OA Only Subtraction	19KB	June 17, 2005	TABLE2.TXT
3A	Sequence Related Table regarding Schizophrenia v. MDS	228KB	June 17, 2005	TABLE3A.TXT
3B	Sequence Related Table regarding Hepatitis v. Liver Cancer	347KB	June 17, 2005	TABLE3B.TXT
3C	Sequence Related Table regarding Bladder Cancer v. Kidney Cancer	470KB	June 17, 2005	TABLE3C.TXT
3D	Sequence Related Table regarding Bladder Cancer v. Testicular Cancer	556KB	June 17, 2005	TABLE3D.TXT
3E	Sequence Related Table regarding Testicular Cancer v. Kidney Cancer	588KB	June 17, 2005	TABLE3E.TXT
3F	Sequence Related Table regarding Liver Cancer v. Stomach Cancer	84KB	June 17, 2005	TABLE3F.TXT
3G	Sequence Related Table regarding Liver Cancer v. Colon Cancer	149KB	June 17, 2005	TABLE3G.TXT
3H	Sequence Related Table regarding Stomach Cancer v. Colon Cancer	166KB	June 17, 2005	TABLE3H.TXT
31	Sequence Related Table regarding OA v. RA	214KB	June 17, 2005	TABLE3I.TXT
3K	Sequence Related Table regarding Chagas Disease v.Heart Failure	16KB	June 17, 2005	TABLE3K.TXT
3L	Sequence Related Table regarding Chagas Disease v. CAD	19KB	June 17, 2005	TABLE3L.TXT
3N	Sequence Related Table regarding CAD v. Heart Failure	13KB	June 17, 2005	TABLE3N.TXT
3P	Sequence Related Table regarding Asymptomatic Chagas v. Symptomatic	68KB	June 17, 2005	TABLE3P.TXT

Chagas

3Q	Sequence Related Table regarding Alzheimers' v. Schizophrenia	56KB	June 17, 2005	TABLE3Q.TXT
3R	Sequence Related Table regarding Alzheimers' v. Manic Depression	51KB	June 17, 2005	TABLE3R.TXT
4A	Sequence Related Table regarding OA v. Control (ChondroChip)	538KB	June 17, 2005	TABLE4A.TXT
4B	Sequence Related Table regarding OA v. Control (Affy)	550KB	June 17, 2005	TABLE4B.TXT
4C	Sequence Related Table regarding OA mild v. Control (ChondroChip)	321KB	June 17, 2005	TABLE4C.TXT
4D	Sequence Related Table regarding OA mild v. Control (Affy)	587KB	June 17, 2005	TABLE 4D.TXT
4E	Sequence Related Table regarding OA moderate v. Control (ChondroChip)	198KB	June 17, 2005	TABLE4E.TXT
4F	Sequence Related Table regarding OA moderate v. Control (Affy)	576KB	June 17, 2005	TABLE4F.TXT
4G	Sequence Related Table regarding OA marked v. Control (ChondroChip)	203KB	June 17, 2005	TABLE4G.TXT
4H	Sequence Related Table regarding OA marked v. Control (Affy)	679KB	June 17, 2005	TABLE4H.TXT
4I	Sequence Related Table regarding OA severe v. Control (ChondroChip)	291KB	June 17, 2005	TABLE4I.TXT
4J	Sequence Related Table regarding OA severe v. Control (Affy)	607KB	June 17, 2005	TABLE4J.TXT
4K	Sequence Related Table regarding OA mild v. moderate (ChondroChip)	113KB	June 17, 2005	TABLE4K.TXT
4L	Sequence Related Table regarding OA mild v. moderate (Affy)	488KB	June 17, 2005	TABLE4L.TXT
4M	Sequence Related Table regarding OA mild v. marked (ChondroChip)	93KB	June 17, 2005	TABLE4M.TXT
4N	Sequence Related Table regarding OA mild v. marked (Affy)	373KB	June 17, 2005	TABLE4N.TXT
4O	Sequence Related Table regarding OA mild v. severe	177KB	June 17, 2005	TABLE4O.TXT

(ChondroChip)

4P	Sequence Related Table regarding OA mild v. severe (Affy)	687KB	June 17, 2005	TABLE4P.TXT
4Q	Sequence Related Table regarding OA moderate v. marked (ChondroChip)	103KB	June 17, 2005	TABLE4Q.TXT
4R	Sequence Related Table regarding OA moderate v. marked (Affy)	450KB	June 17, 2005	TABLE4R.TXT
4S	Sequence Related Table regarding OA moderate v. severe (ChondroChip)	79KB	June 17, 2005	TABLE4S.TXT
4T	Sequence Related Table regarding OA moderate v. severe (Affy)	627KB	June 17, 2005	TABLE4T.TXT
4U	Sequence Related Table regarding OA marked v. severe (ChondroChip)	66KB	June 17, 2005	TABLE4U.TXT
4V	Sequence Related Table regarding OA marked v. severe (Affy)	758KB	June 17, 2005	TABLE4V.TXT
5A	Sequence Related Table regarding Psoriasis v. Control	80KB	June 17, 2005	TABLE5A.TXT
5B	Sequence Related Table regarding Thyroid Disorder v. Control	373KB	June 17, 2005	TABLE5B.TXT
5C	Sequence Related Table regarding Irritable Bowel Syndrome v. Control	87KB	June 17, 2005	TABLE5C.TXT
5D	Sequence Related Table regarding Osteoporosis v. Control	79KB	June 17, 2005	TABLE5D.TXT
5E	Sequence Related Table regarding Migraine Headaches v. Control	231KB	June 17, 2005	TABLE5E.TXT
5F	Sequence Related Table regarding Eczema v. Control	56KB	June 17, 2005	TABLE5F.TXT
5G	Sequence Related Table regarding NASH v. Control	349KB	June 17, 2005	TABLE5G.TXT
5H	Sequence Related Table regarding Alzheimers' v. Control	268KB	June 17, 2005	TABLE5H.TXT
5I	Sequence Related Table regarding Manic Depression v. Control	298KB	June 17, 2005	TABLE5I.TXT
5J	Sequence Related Table regarding Crohns' Colitis v. Control	45KB	June 17, 2005	TABLE5J.TXT
5K	Sequence Related Table regarding Chronic Cholecystis	53KB	June 17, 2005	TABLE5K.TXT

v. Control

5L	Sequence Related Table regarding Heart Failure v. Control	160KB	June 17, 2005	TABLE5L.TXT
5M	Sequence Related Table regarding Cervical Cancer v. Control	304KB	June 17, 2005	TABLE5M.TXT
5N	Sequence Related Table regarding Stomach Cancer v. Control	185KB	June 17, 2005	TABLE5N.TXT
5O	Sequence Related Table regarding Kidney Cancer v. Control	404KB	June 17, 2005	TABLE5O.TXT
5P	Sequence Related Table regarding Testicular Cancer v. Control	486KB	June 17, 2005	TABLE5P.TXT
5Q	Sequence Related Table regarding Colon Cancer v. Control	380KB	June 17, 2005	TABLE5Q.TXT
5R	Sequence Related Table regarding Hepatitis B v. Control	140KB	June 17, 2005	TABLE5R.TXT
5S	Sequence Related Table regarding Pancreatic Cancer v. Control	177KB	June 17, 2005	TABLE5S.TXT
5T	Sequence Related Table regarding Asymptomatic Chagas v. Control	63KB	June 17, 2005	TABLE5T.TXT
5U	Sequence Related Table regarding Symptomatic Chagas v. Control	77KB	June 17, 2005	TABLE5U.TXT
5V	Sequence Related Table regarding Bladder Cancer v. Control	383KB	June 17, 2005	TABLE5V.TXT
6A	Sequence Related Table regarding Cancer (all types) v. Control	163KB	June 17, 2005	TABLE6A.TXT
6B	Sequence Related Table regarding Cardiovascular Disease v. Control	73KB	June 17, 2005	TABLE6B.TXT
βc	Sequence Related Table regarding Neurological Diseases v. Control	337KB	June 17, 2005	TABLE6C.TXT
7A	Sequence Related Table regarding Celebrex® v. all Cox inhibitors except Celebrex	55KB	June 17, 2005	TABLE7A.TXT
7B	Sequence Related Table regarding Celebrex® v. Control	57KB	June 17, 2005	TABLE7B.TXT
7C	Sequence Related Table	53KB	June 17,	TABLE7C.TXT

	regarding Vioxx® v. Control		2005	
7D	Sequence Related Table regarding Vioxx® v. All Cox Inhibitors except Vioxx®	49KB	June 17, 2005	TABLE7D.TXT
7E	Sequence Related Table regarding NSAIDS v. Control	72KB	June 17, 2005	TABLE7E.TXT
7F	Sequence Related Table regarding Cortisone v. Control	208KB	June 17, 2005	TABLE7F.TXT
7G	Sequence Related Table regarding Visco Supplement v. Control	316KB	June 17, 2005	TABLE7G.TXT
7H	Sequence Related Table regarding Lipitor® v. Control	131KB	June 17, 2005	TABLE7H.TXT
7I	Sequence Related Table regarding Smoker v. Non-Smoker	23KB	June 17, 2005	TABLE7I.TXT

2.   BACKGROUND OF THE INVENTION

The prior art is deficient in simple, non-invasive and effective methods of identifying molecular markers and the use of said molecular markers for purposes of: diagnosis; prognosis; prediction of disease, stage of disease or disease risk; monitor

5   disease progression and/or regression; monitor disease reoccurrence and identifying risk of disease reoccurrence or the like. The prior art is also deficient in simple non-invasive methods of identifying molecular markers and use of said molecular markers to determine and/or predict response to treatment and/or treatment outcomes, monitor and/or predict treatment compliance or non-compliance, etc. Although progress has been made in

10   identifying molecular markers by detecting the products of putative molecular markers using expression arrays in a variety of diagnostic areas and therapeutic areas, such progress has been primarily limited to studying non-blood tissue samples, such as primary tumors, that are difficult to obtain and thus have limited potential as a diagnostic. What is even more unsatisfactory is that retrieval of such tissue samples often requires invasive

15   medical procedures such as surgery. Prediction of response to treatment is also a significant problem. It is well understood that, for many currently recognized treatments, only a small percentage of the population (for example approximately 20-30%) will respond positively. Amongst the remainder of the population, there are those who do not improve, and others who display a negative or toxic response to the treatment. As a result

20   of these detrimental effects to some, many effective treatments do not get to market. The prior art is thus deficient in simple, non-invasive methods to analyze and predict treatment and response to treatment.

Such drawbacks have made identification of molecular markers unsatisfactorily difficult. See, for example, Alon *et al*, 1999, Proc. Natl. Acad. Sci. USA 96, pp. 6745-6750; Schummer *et al*, 1999, Gene 238, pp. 375-385; and van't Veer, 2002, Nature 415, pp. 530-536.

5   Even where progress has been made in identifying molecular markers by monitoring molecular marker products using expression arrays - whether in blood or using tissue - the techniques utilized merely identify large number of molecular markers two or more of which may be required so as to permit categorizing an unknown sample for diagnosis. It is not clear, however, which of these molecular markers are most useful to

10   accurately diagnose an unknown sample. In addition, techniques currently available in the art are not sufficiently robust (ie high levels of reproducibility) in accordance with scientific and regulatory standards so as to be used reliably to diagnose a test individual. Thus what is required in the art is a means to select smaller subsets of useful molecular markers which when used in combination permit the accurate and reproducible diagnosis

15   of an unknown sample for a particular trait of interest. Further what is required in the art is a means of translating the molecular marker data from these selected combinations so as to convert these into a diagnosis.

Discussion or citation of a reference herein will not be construed as an admission that such reference is prior art to the present invention.

20   **3.   SUMMARY OF THE INVENTION**

Thus what is needed in the art is a method to identify useful combinations of molecular markers and a means of using said combinations of molecular markers (or more accurately measurement of the products of said molecular markers) so as to permit diagnosis of a test sample. Embodiments of the present invention address many of the

25   shortcomings and drawbacks found in the prior art by the novel approach of using molecular marker measurement data from blood and methods of processing such data to screen the large numbers of candidate molecular markers in blood so as to identify useful combinations of these molecular markers. Embodiments of the present invention involve the construction of classifiers and use of these classifiers. In addition, embodiments of the

30   invention involve the use of the molecular markers identified by these classifiers to diagnose or otherwise determine whether a test subject has a specific trait of interest. Blood offers a surprisingly informative alternative to tissues as a source of information. Blood includes numerous cell types including monocytes, leukocytes, lymphocytes, erythrocytes, platelets, as well as possibly many other cell types. The turnover of cells in

the human circulatory system is rapid. As a consequence of continuous interactions between the blood and the body, it has been hypothesized that the changes that occur within the cells or tissues of the body will trigger specific changes in gene expression within blood. See, for example, United States patent application serial No. 10/601,518,

5   filed June 20, 2003, United States patent application serial No. 10/802,875, filed March 12, 2004, United States patent application serial No. 10/809,675, filed March 25, 2004, United States patent application serial No. 10/268,730, filed October 9, 2002, United States patent application serial No. 09/477,148, filed January 4, 2000, and United States patent application serial No. 60/1 15,125, filed Jan. 6, 1999, which are hereby incorporated herein

10   by reference in their entirety. Thus, blood has the potential to provide a powerful indicator of what is happening in the human body at any given time, but provides unique challenges to harness this vast amount of potential information available. Embodiments of the current invention help address this challenge.

4.   BRIEF DESCRIPTION OF THE DRAWINGS

15   Fig. 1 illustrates a computer system for determining and selecting useful biological classifiers.

Fig. 2 illustrates a method for deriving biological classifiers in accordance with an embodiment of the present invention.

Fig. 3 is a flowchart of a method of applying the classifiers to a patient.

20   Fig. 4 illustrates a data structure for storing high throughput information for a plurality of molecular markers in accordance with one embodiment of the present invention.

Fig. 5 illustrates a data structure for storing a plurality of classifiers in accordance with one embodiment of the present invention.

25   Fig. 6 illustrates a patient database for storing data for molecular markers for a plurality of patients in accordance with an embodiment of the present invention.

Fig. 7 illustrates a Receiver Operating Characteristic (ROC) curve that is used to assess the discriminating ability of a molecular marker or a classifier in accordance with one embodiment of the present invention.

30   Fig. 8 illustrates ROC curves corresponding to two candidate classifiers for osteoarthritis computed in accordance with one embodiment of the present invention.

Description of Tables;

Table 1 as a group of tables identifies the molecular markers that are differentially expressed in blood samples from patients with a disease or patients who are co-morbid as

compared to blood samples from healthy patients or patients without said disease, or with only one of said co-morbid diseases and also shows the sequences of selected products of the identified molecular markers. Molecular marker data from the molecular markers listed in each table or a subset of these molecular markers can be used can be used in steps 214-

5   218 as outlined in Figure 2B so as to identify classifiers and the combinations of molecular markers which form the classifiers useful in diagnosis.

Table 1A identifies the molecular markers which are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has both osteoarthritis and hypertension as compared with a

10 second trait subgroup wherein each member of the second trait subgroup has neither osteoarthritis nor hypertension using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1B shows the identity of those molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup

15 where each member of the subgroup has both osteoarthritis and obesity as compared with a second trait subgroup wherein each member of the second trait subgroup has neither osteoarthritis nor obesity using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1C shows the molecular markers that are differentially expressed in blood

20 samples from a training population comprised of a first trait subgroup where each member of the subgroup has both osteoarthritis and allergies as compared with a second trait subgroup wherein each member of the second trait subgroup has neither osteoarthritis nor allergies using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

25 **Table 1D** shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has both osteoarthritis and subject to systemic steroids as compared with normal patients using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

30 **Table 1E** shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has hypertension as compared to a second trait subgroup wherein each member of the second trait subgroup did not have hypertension using the ChondroChip™

platform. The table also shows the sequences of selected products of the identified
molecular markers.

       Table 1F shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member

5   of the subgroup has obesity as compared to a second trait subgroup wherein each member
of the second trait subgroup did not have obesity using the ChondroChip™ platform. The
table also shows the sequences of selected products of the identified molecular markers.

       Table 1G shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member

10   of the subgroup has hypertension and OA when compared with a second trait subgroup
wherein each member of the second trait subgroup have OA only wherein molecular
markers identified in Table IA have been removed so as to identify molecular markers
which are unique to hypertension. The table also shows the sequences of selected products
of the identified molecular markers.

15   **Table 1H** shows the molecular markers which were identified in Table IA which
are shared with those molecular markers differentially expressed in blood samples from a
training population comprised of a first trait subgroup where each member of the subgroup
has both hypertension and OA when compared with a second trait subgroup wherein each
member of the second trait subgroup have OA only. The table also shows the sequences of

20   selected products of the identified molecular markers.

       Table 1I shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member
of the subgroup has both obesity and have OA when compared with a second trait
subgroup wherein each member of the second trait subgroup have OA only and wherein

25   molecular markers identified in Table IB have been removed so as to identify molecular
markers which are unique to obesity. The table also shows the sequences of selected
products of the identified molecular markers.

       Table 1J shows the molecular markers identified in Table IB which are shared
with those molecular markers differentially expressed in blood samples from patients who

30   are obese and have OA when compared with patients who have OA. The table also shows
the sequences of selected products of the identified molecular markers.

       Table 1K shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member
of the subgroup has both allergies and OA when compared with a second trait subgroup

wherein each member of the second trait subgroup have OA only wherein molecular markers identified in Table 1C have been removed so as to identify molecular markers which are unique to allergies. The table also shows the sequences of selected products of the identified molecular markers.

5   **Table 1L** shows the identify of those molecular markers identified in Table 3C which are shared with those molecular markers differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has both allergies and OA when compared with a second trait subgroup wherein each member of the second trait subgroup having OA only. The table also shows the

10   sequences of selected products of the identified molecular markers.

           Table 1M shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup is taking systemic steroids and has OA when compared with a second trait subgroup wherein each member of the second trait subgroup have OA only wherein

15   molecular markers identified in Table 1D have been removed so as to identify molecular markers which are unique to patients on systemic steroids. The table also shows the sequences of selected products of the identified molecular markers.

           Table 1N shows the identify of those molecular markers identified in Table 1D which are shared with those molecular markers differentially expressed in blood samples

20   from a training population comprised of a first trait subgroup where each member of the subgroup who are on systemic steroids and have OA when compared with a second trait subgroup wherein each member of the second trait subgroup have OA only. The table also shows the sequences of selected products of the identified molecular markers.

           Table 1O shows the molecular markers that are differentially expressed in blood

25   from a training population comprised of a first trait subgroup where each member of the subgroup are either taking birth control, on prednisone or on hormone replacement therapy and presenting with OA using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

           Table 1P shows the molecular markers that are differentially expressed in blood

30   samples from a training population comprised of a first trait subgroup where each member of the subgroup has both type II diabetes as compared to a second trait subgroup wherein each member of the second trait subgroup does not have type II diabetes using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1Q shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Hyperlipidemia as compared to a second trait subgroup wherein each member of the second trait subgroup does not have Hyperlipidemia using the

5   ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1R shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has lung disease as compared to a second trait subgroup wherein each

10   member of the second trait subgroup does not have lung disease using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1S shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member

15   of the subgroup has bladder cancer as compared to a second trait subgroup wherein each member of the second trait subgroup does not have bladder cancer using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1T shows the molecular markers that are differentially expressed in blood

20   samples from a training population comprised of a first trait subgroup where each member of the subgroup has early stage bladder cancer, late stage bladder cancer with a second trait subgroup wherein each member of the second trait subgroup does not have bladder cancer using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

25   Table 1U shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has coronary artery disease (CAD) as compared to a second trait subgroup wherein each member of the second trait subgroup does not have not having CAD using the ChondroChip™ platform. The table also shows the sequences of selected products of

30   the identified molecular markers.

Table 1V shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has rheumatoid arthritis as compared to a second trait subgroup wherein each member of the second trait subgroup does not have rheumatoid arthritis using the

ChondroChip™ platform . The table also shows the sequences of selected products of the identified molecular markers.

Table I W shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has rheumatoid arthritis as compared to a second trait subgroup wherein each member of the second trait subgroup does not have rheumatoid arthritis using the Affymetrix® platform . The table also shows the sequences of selected products of the identified molecular markers.

Table IX shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has depression as compared with a second trait subgroup wherein each member of the second trait subgroup does not having depression using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table I Y shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has one of various stages of osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup does not have osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table IZ shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has liver cancer as compared with a second trait subgroup wherein each member of the second trait subgroup does not have liver cancer using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table IZ(B) shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has liver cancer as compared with a second trait subgroup wherein each member of the second trait subgroup does not have liver cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table IAA shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member

14

of the subgroup has schizophrenia as compared with a second trait subgroup wherein each member of the second trait subgroup does not have schizophrenia using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

5   **Table IAB** shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Chagas disease as compared with a second trait subgroup wherein each member of the second trait subgroup does not have Chagas disease using the Affymetrix® platform. The table also shows the sequences of selected products of the

10   identified molecular markers.

Table IAC shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has both asthma and osteoarthritis as compared a second trait subgroup wherein each member of the second trait subgroup has only osteoarthritis using the

15   ChondroChip™. The table also shows the sequences of selected products of the identified molecular markers.

Table IAD shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has asthma as compared with a second trait subgroup wherein each

20   member of the second trait subgroup does not have asthma using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table IAE shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member

25   of the subgroup has lung cancer as compared with a second trait subgroup wherein each member of the second trait subgroup does not have lung cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table IAG shows the molecular markers that are differentially expressed in blood

30   samples from a training population comprised of a first trait subgroup where each member of the subgroup has hypertension as compared with a second trait subgroup wherein each member of the second trait subgroup does not have hypertension using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1AH shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has obesity as compared with a second trait subgroup wherein each member of the second trait subgroup does not have obesity using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 1AI shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has ankylosing spondylitis as compared with a second trait subgroup wherein each member of the second trait subgroup does not have ankylosing spondylitis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 2 shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has either mild or severe OA, but for which molecular markers relevant to asthma, obesity, hypertension, systemic steroids and allergies have been removed. The table also shows the sequences of selected products of the identified molecular markers.

Table 3 is a group of tables wherein each table shows those molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has a first disease as compared to blood samples from a second trait subgroup wherein each member of the second trait subgroup has a second disease so as to allow differential diagnosis as between said first and second disease.

Table 3A shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has schizophrenia as compared with a second trait subgroup wherein each member of the second trait subgroup has manic depression syndrome (MDS) using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3B shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has hepatitis as compared with a second trait subgroup wherein each member of the second trait subgroup has liver cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3C shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has bladder cancer as compared with a second trait subgroup wherein each member of the second trait subgroup has liver cancer using the Affymetrix® platform. The

5   table also shows the sequences of selected products of the identified molecular markers.

Table 3D shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has bladder cancer as compared with a second trait subgroup wherein each member of the second trait subgroup has testicular cancer using the Affymetrix® platform.

10   The table also shows the sequences of selected products of the identified molecular markers.

Table 3E shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has testicular cancer as compared with a second trait subgroup wherein each

15   member of the second trait subgroup has kidney cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3F shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the

20   subgroup has liver cancer as compared with a second trait subgroup wherein each member of the second trait subgroup has stomach cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3G shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the

25   subgroup has liver cancer as compared with a second trait subgroup wherein each member of the second trait subgroup has colon cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3H shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the

30   subgroup has stomach cancer as compared with a second trait subgroup wherein each member of the second trait subgroup has colon cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3I shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has Rheumatoid Arthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has Osteoarthritis using the Affymetrix® platform.

5   The table also shows the sequences of selected products of the identified molecular markers.

Table 3K shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has Chagas Disease as compared with a second trait subgroup wherein each

10   member of the second trait subgroup has Heart Failure using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3L shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the

15   subgroup has Chagas Disease as compared with a second trait subgroup wherein each member of the second trait subgroup has Coronary Artery Disease using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 3N shows the molecular markers that are differentially expressed in blood

20   from a training population comprised of a first trait subgroup where each member of the subgroup has Coronary Artery Disease as compared with a second trait subgroup wherein each member of the second trait subgroup has Heart Failure using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

25   **Table 3P** shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has Asymptomatic Chagas Disease as compared with a second trait subgroup wherein each member of the second trait subgroup has Symptomatic Chagas Disease using the Affymetrix® platform. The table also shows the sequences of selected products of the

30   identified molecular markers.

Table 3Q shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has Alzheimer's' as compared with a second trait subgroup wherein each member of the second trait subgroup has Schizophrenia using the Affymetrix® platform.

The table also shows the sequences of selected products of the identified molecular markers.

Table 3R shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has Alzheimer's' as compared with a second trait subgroup wherein each member of the second trait subgroup has Manic Depression Syndrome using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4 tables are those which shows molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has a stage of Osteoarthritis as compared to blood samples from a second trait subgroup wherein each member of the second trait subgroup has a second stage of Osteoarthritis so as to allow monitoring of progression and/or regression of disease. Each table also shows the sequences of selected products of the identified molecular markers.

Table 4A shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without Osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4B shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4C shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without mild Osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4D shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without Osteoarthritis using the Affymetrix®

5   platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4E shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has moderate Osteoarthritis as compared with patients without Osteoarthritis

10   using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4F shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has moderate Osteoarthritis as compared a second trait subgroup wherein each

15   member of the second trait subgroup is without Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4G shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the

20   subgroup has marked Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without Osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4H shows the molecular markers that are differentially expressed in blood

25   from a training population comprised of a first trait subgroup where each member of the subgroup has marked Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

30   **Table 4I** shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has severe Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without Osteoarthritis using the ChondroChip™

platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4J shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has severe Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup is without Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4K shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has moderate Osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4L shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has moderate Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4M shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has marked Osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4N shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has marked Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4O shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the

subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has severe Osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

5   **Table 4P** shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has mild Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has severe Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified

10   molecular markers.

Table 4Q shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has moderate Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has marked Osteoarthritis using the

15   ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4R shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has moderate Osteoarthritis as compared with a second trait subgroup wherein

20   each member of the second trait subgroup has marked Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4S shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the

25   subgroup has moderate Osteoarthritis as compared with patients a second trait subgroup wherein each member of the second trait subgroup has severe Osteoarthritis using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4T shows the molecular markers that are differentially expressed in blood

30   from a training population comprised of a first trait subgroup where each member of the subgroup has moderate Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has severe Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4U shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has marked Osteoarthritis as compared with a second trait subgroup wherein each member of the second trait subgroup has severe Osteoarthritis using the

5   ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 4V shows the molecular markers that are differentially expressed in blood from a training population comprised of a first trait subgroup where each member of the subgroup has marked Osteoarthritis as compared with a second trait subgroup wherein

10 each member of the second trait subgroup has severe Osteoarthritis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5 tables are those which identify molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup

15 where each member of the subgroup has a disease or condition of interest as compared to blood samples from a second trait subgroup wherein each member of the second trait subgroup is without said disease or condition. The tables also shows the sequences of selected products of the identified molecular markers.

Table 5A shows the molecular markers that are differentially expressed in blood

20 samples from a training population comprised of a first trait subgroup where each member of the subgroup has psoriasis as compared with a second trait subgroup wherein each member of the second trait subgroup does not have psoriasis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

25 **Table 5B** shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has thyroid disorder as compared with a second trait subgroup wherein each member of the second trait subgroup does not have thyroid disorder using the Affymetrix® platform. The table also shows the sequences of selected products of the

30 identified molecular markers.

Table 5C shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has irritable bowel syndrome as compared with a second trait subgroup wherein each member of the second trait subgroup does not have irritable bowel syndrome

using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5D shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member
5   of the subgroup has osteoporosis as compared with a second trait subgroup wherein each member of the second trait subgroup does not have osteoporosis using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5E shows the molecular markers that are differentially expressed in blood
10   samples from a training population comprised of a first trait subgroup where each member of the subgroup has migraine headaches as compared with a second trait subgroup wherein each member of the second trait subgroup does not have migraine headaches using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

15   Table 5F shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has eczema as compared with a second trait subgroup wherein each member of the second trait subgroup does not have eczema using the Affymetrix® platform. The table also shows the sequences of selected products of the identified
20   molecular markers.

Table 5G shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has NASH as compared with a second trait subgroup wherein each member of the second trait subgroup does not have NASH using the Affymetrix®
25   platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5H shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Alzheimers' disease as compared with a second trait subgroup wherein
30   each member of the second trait subgroup does not have Alzheimer's disease using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5I shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member

of the subgroup has Manic Depression Syndrome as compared with a second trait
subgroup wherein each member of the second trait subgroup does not have Manic
Depression Syndrome using the Affymetrix® platform. The table also shows the
sequences of selected products of the identified molecular markers.

5   **Table 5J** shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member
of the subgroup has Crohn's Colitis as compared with a second trait subgroup wherein
each member of the second trait subgroup does not have Crohn's Colitis using the
Affymetrix® platform. The table also shows the sequences of selected products of the
10   identified molecular markers.

Table 5K shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member
of the subgroup has Chronic Cholecystis as compared with a second trait subgroup
wherein each member of the second trait subgroup does not have Chronic Cholecystis
15   using the Affymetrix® platform. The table also shows the sequences of selected products
of the identified molecular markers.

Table 5L shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member
of the subgroup has Heart Failure as compared with a second trait subgroup wherein each
20   member of the second trait subgroup does not have Heart Failure using the Affymetrix®
platform. The table also shows the sequences of selected products of the identified
molecular markers.

Table 5M shows the molecular markers that are differentially expressed in blood
samples from a training population comprised of a first trait subgroup where each member
25   of the subgroup has Cervical Cancer as compared with a second trait subgroup wherein
each member of the second trait subgroup does not have Cervical Cancer using the
Affymetrix® platform. The table also shows the sequences of selected products of the
identified molecular markers.

Table 5N shows the molecular markers that are differentially expressed in blood
30   samples from a training population comprised of a first trait subgroup where each member
of the subgroup has Stomach Cancer as compared with a second trait subgroup wherein
each member of the second trait subgroup does not have Stomach Cancer using the
Affymetrix® platform. The table also shows the sequences of selected products of the
identified molecular markers.

Table 5O shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Kidney Cancer as compared with a second trait subgroup wherein each member of the second trait subgroup does not have Kidney Cancer using the
5   Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5P shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Testicular Cancer as compared with a second trait subgroup wherein
10   each member of the second trait subgroup does not have Testicular Cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5Q shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member
15   of the subgroup has Colon Cancer as compared a second trait subgroup wherein each member of the second trait subgroup does not have Colon Cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5R shows the molecular markers that are differentially expressed in blood
20   samples from a training population comprised of a first trait subgroup where each member of the subgroup has Hepatitis B as compared with a second trait subgroup wherein each member of the second trait subgroup does not have Hepatitis B using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

25   **Table 5S** shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Pancreatic Cancer as compared with a second trait subgroup wherein each member of the second trait subgroup does not have Pancreatic Cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the
30   identified molecular markers.

Table 5T shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Asymptomatic Chagas as compared with a second trait subgroup wherein each member of the second trait subgroup does not have Chagas using the

Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5U shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member

5   of the subgroup has Symptomatic Chagas as compared with a second trait subgroup wherein each member of the second trait subgroup does not have Chagas using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 5V shows the molecular markers that are differentially expressed in blood

10   samples from a training population comprised of a first trait subgroup where each member of the subgroup has Bladder Cancer as compared with patients not having Bladder Cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 6 tables are those tables which show those molecular markers that are

15   differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has any one of a series of related conditions as compared to blood samples a second trait subgroup wherein each member of the second trait subgroup does not have said related conditions. The table also shows the sequences of selected products of the identified molecular markers.

20   Table 6A shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has Cancer as compared with a second trait subgroup wherein each member of the second trait subgroup does not have Cancer using the Affymetrix® platform. The table also shows the sequences of selected products of the identified

25   molecular markers.

Table 6B shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup with Cardiovascular Disease as compared with a second trait subgroup wherein each member of the second trait subgroup does not have a Cardiovascular Disease

30   using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 6C shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup has a Neurological Disease as compared with a second trait subgroup

wherein each member of the second trait subgroup does not have a Neurological Disease using the Affymetrix® platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 7 tables are those tables which show molecular markers that are

5   differentially expressed in blood samples from with a condition wherein said condition is a treatment as compared to blood samples from patients without said treatment or with a different said treatment.

Table 7A shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member

10   of the subgroup is taking Celebrex® as compared a second trait subgroup wherein each member of the second trait subgroup is taking a Cox Inhibitor which was not Celebrex® using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 7B shows the molecular markers that are differentially expressed in blood

15   samples from a training population comprised of a first trait subgroup where each member of the subgroup is taking Celebrex® as compared with a second trait subgroup wherein each member of the second trait subgroup is not taking Celebrex® using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

20   **Table 7C** shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup is taking Vioxx® as compared a second trait subgroup wherein each member of the second trait subgroup is not taking Vioxx® using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified

25   molecular markers.

Table 7D shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup is taking Vioxx® as compared with a second trait subgroup wherein each member of the second trait subgroup on a Cox inhibitor but not on Vioxx® using the

30   ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 7E shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup is taking NSAIDS as compared with patients not on NSAIDS using the

ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 7F shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member

5   of the subgroup is taking Cortisone as compared with a second trait subgroup wherein each member of the second trait subgroup on not on Cortisone using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

Table 7G shows the molecular markers that are differentially expressed in blood

10   samples from a training population comprised of a first trait subgroup where each member of the subgroup is taking Visco Supplement as compared with a second trait subgroup wherein each member of the second trait subgroup not on Visco Supplement using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular markers.

15   **Table 7H** shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup is taking Lipitor® as compared with a second trait subgroup wherein each member of the second trait subgroup not on Lipitor® using the ChondroChip™ platform. The table also shows the sequences of selected products of the identified molecular

20   markers.

Table 7I shows the molecular markers that are differentially expressed in blood samples from a training population comprised of a first trait subgroup where each member of the subgroup is who are smokers as compared with a second trait subgroup wherein each member of the second trait subgroup who are not smokers using the ChondroChip™

25   platform. The table also shows the sequences of selected products of the identified molecular markers.

To further clarify, Tables IAA; IAB; IAD; IAE; IAG; IAH; IAT; IS; IT; IU; IW; 1Z(b); 3A; 3B; 3C; 3D; 3E; 3F; 3G; 3H; 3I; 3K; 3L; 3P; 3Q; 3R; 4B; 4D; 4F; 4H; 4J; 4L; 4N; 4P; 4R; 4T; 4V; 5A; 5B; 5C; 5D; 5EE; 5F; 5G; 5H; 5I; 5J; 5K; 5L; 5M; 5N; 5O;

30   5P 5Q; 5R; 5S; 5T; 5U; 5V; 6A; 6B; 6C; 7F; and 7G each identify the molecular markers identified using the Affymetrix® genechip to screen the products of the majority of molecular markers of the human genome in accordance with step 202.

Tables IA; 1 AC; IB; 1C; ID; IE; IF; IG; IH; II; U ; IK; IL; IM; IN; 1O; IP; IQ; IR; IV; IX; IY; IZ; 2; 4A; 4C; 4E; 4G; 4I; 4K; 4M; 4O; 4Q; 4S; 4V; 7A; 7B; 7C;

7D; 7E; 7H; and 7I each identify molecular markers identified using our own ChondroChip™ genechip to screen the products of the majority of the molecular markers of the human genome.

Like reference numerals refer to corresponding parts throughout the several views

5   of the drawings.

5.   DETAILED DESCRIPTION

The embodiments of the present invention use novel approaches to screen and select molecular markers and develop classifiers that can be used to harness the use of molecular marker data from blood. The present invention thus provides systems and

10   methods for constructing biological classifiers using molecular marker data from blood by providing a method to screen and select from a large variety of potential molecular markers so as to identify a small subset of molecular markers. The classifiers and the combinations of molecular markers identified using aspects of the current invention are useful for a wide variety of purposes including: diagnosis; prognosis; prediction of disease,

15   stage of disease or disease risk; monitoring disease progression and/or regression; monitoring disease reoccurrence and identifying risk of disease reoccurrence; determining and/or predicting response to treatment and/or treatment outcomes; monitoring and/or predicting treatment compliance or non-compliance and the like.   As used herein, a "condition" includes a mode or state of being including a physical, emotional,

20   psychological or pathological state. A condition can be as a result of both "genetic" (ie genetically inherited) and/or "environmental" factors (ie the result of exposure to internal or external influences).   In one embodiment of the invention, a condition is a disease. In another embodiment of the invention, a condition is a stage of a disease. In yet another embodiment of the invention, a condition is a mode or state of being which is not a

25   disease. For example in one embodiment, a condition which is not a disease is a condition resulting from the progression of time. A condition resulting from progression of time can include, but is not limited to: memory loss, loss of skin elasticity, loss of muscle tone, and loss of sexual desire. In a further embodiment of the invention a condition which is not a disease is the response to treatment. A treatment can include, but is not limited to disease

30   modifying treatments as well as treatments useful in mitigating the symptoms of disease. For example treatments can include drugs specific for a disease of the invention.

As used herein, the term "data" or "molecular marker data" generally refers to data reflective of the abundance of a product of a molecular marker in blood including either or both of RNA and protein.

As used herein, "diagnosis" includes the ability to determine that an individual has or does not have a specific condition or conditions. Diagnosis also refers to the ability to determine that an individual has one condition or conditions as compared with one or more other condition or conditions. In some embodiments, diagnosis refers to the ability to

5   demonstrate an increased likelihood that an individual has a specific condition. "diagnosis" refers to the ability to demonstrate an increased likelihood that an individual has one condition as compared to a second condition. More particularly "diagnosis" refers to a process whereby there is an increased likelihood that an individual is properly characterized as having a condition ("true positive") or is properly characterized as not

10   having a condition (or is properly characterized as having the second condition where the diagnosis is as between two conditions) ("true negative") while minimizing the likelihood that the individual is improperly characterized with said condition ("false positive") or improperly characterized as not being afflicted with said condition (or improperly characterized as having the second condition)("false negative").

15   As used herein, the term "differential expression" refers to a difference in the level of expression of the RNA and/or protein products of a molecular marker of the invention, as measured by the amount or level of RNA or protein. In reference to RNA, it can include difference in the level of expression of mRNA, and/or one or more spliced variants of mRNA of the biomarker in one sample as compared with the level of expression of the

20   same one or more biomarkers of the invention as measured by the amount or level of RNA, including mRNA and/or one or more spliced variants of mRNA in a second sample. "Differentially expressed" or "differential expression" can also include a measurement of the protein, or one or more protein variants encoded by a molecular marker of the invention in a sample or population of samples as compared with the amount or level of

25   protein expression, including one or more protein variants of a molecular marker of the invention. Differential expression can be determined as described herein and as would be understood by a person skilled in the art. The term "differentially expressed" or "changes in the level of expression" refers to an increase or decrease in the measurable expression level of a given product of a molecular marker as measured by the amount of RNA and/or

30   the amount of protein in a sample as compared with the measurable expression level of a given product of the molecular marker in a second sample. The first sample and second sample need not be from different patients, but can be samples from the same patient taken at different time points. The term "differentially expressed" or "changes in the level of expression" can also refer to an increase or decrease in the measurable expression level of

a given molecular marker in a population of samples as compared with the measurable expression level of the molecular marker in a second population of samples. As used herein, "differentially expressed" when referring to a single sample can be measured using the ratio of the level of expression of a given molecular marker in said sample as compared

5   with the mean expression level of the given molecular marker of a control population wherein the ratio is not equal to 1.0. Differentially expressed can also be used to include comparing a first population of samples as compared with a second population of samples or a single sample to a population of samples using either a ratio of the level of expression or using p-value. When using p-value, a nucleic acid transcript including hnRNA and

10   mRNA is identified as being differentially expressed as between a first and second population when the p-value is less than 0.1, less than 0.05, less than 0.01, less than 0.005, less than 0.001 etc. When determining differential expression on the basis of the ratio of the level of molecular marker product —expression of an RNA or protein product of the molecular marker is differentially expressed if the ratio of the level of the RNA or protein

15   product in a first sample as compared with that in a second sample is greater than or less than 1.0. For instance, a ratio of greater than 1, for example 1.2, 1.5, 1.7, 2, 3, 4, 10, 20, or a ratio of less than 1, for example 0.8, 0.6, 0.4, 0.2, 0.1. 0.05, of RNA or protein product of a molecular marker would be indicative of differential expression. In another embodiment of the invention, a molecular marker is differentially expressed if the mean

20   level of expression of a nucleic acid transcript including the hnRNA and/or mRNA transcript in a first population as compared with its mean level of expression of the transcript in a second population is greater than or less than 1.0. For instance, a ratio of greater than 1, for example 1.2, 1.5, 1.7, 2, 3, 4, 10, 20, or a ratio less than 1, for example 0.8, 0.6, 0.4, 0.2, 0.1. 0.05 would be indicative of differential expression. In another

25   embodiment of the invention a molecular marker is differentially expressed if the ratio of the level of the hnRNA and/or mRNA transcript in a first sample as compared with the mean level of the transcript of the second population is greater than or less than 1.0 and includes for example, a ratio of greater than 1, for instance 1.2, 1.5, 1.7, 2, 3, 4, 10, 20, or a ratio less than 1, for example 0.8, 0.6, 0.4, 0.2, 0.1. 0.05. "Differentially increased

30   expression" refers to 1.1 fold, 1.2 fold, 1.4 fold, 1.6 fold, 1.8 fold, or more, relative to a standard, such as the mean of the expression level of the second population. "Differentially decreased expression" refers to less than 1.0 fold, 0.8 fold, 0.6 fold, 0.4 fold, 0.2 fold, 0.1 fold or less, relative to a standard, such as the mean of the expression level of the second population.

As used herein, the term "molecular marker" (or sometimes referred to as a "biomarker") refers to a gene or a genetic element. In some embodiments, the molecular marker of interest is identified by the Gene ID (formerly Locus Link ID) as is published by the National Center for Biotechnology Information (NCBI) Database as would be

5   understood by a person skilled in the art.

As used herein, the term "oligonucleotide" is defined as a molecule comprised of two or more deoxyribonucleotides and/ or ribonucleotides, and preferably more than three. Its exact size will depend upon many factors which, in turn, depend upon the ultimate function and use of the oligonucleotide. The oligonucleotides may be from about 8 to

10   about 1,000 nucleotides long. Although oliognucleotides of 8 to 100 nucleotides are useful in the invention, preferred oligonucleotides range from about 8 to about 15 bases in length, from about 8 to about 20 bases in length, from about 8 to about 25 bases in length, from about 8 to about 30 bases in length, from about 8 to about 40 bases in length or from about 8 to about 50 bases in length.

15   The term, "primer", as used herein refers to an oligonucleotide, whether occurring naturally as in a purified restriction digest or produced synthetically, which is capable of acting as a point of initiation of synthesis when placed under conditions in which synthesis of a primer extension product, which is complementary to a nucleic acid strand, is induced, i.e., in the presence of nucleotides and an inducing agent such as a DNA polymerase and at

20   a suitable temperature and pH. The primer may be either single-stranded or double-stranded and must be sufficiently long to prime the synthesis of the desired extension product in the presence of the inducing agent. The exact length of the primer will depend upon many factors, including temperature, source of primer and the method used. For example, for diagnostic applications, depending on the complexity of the target sequence,

25   the oligonucleotide primer typically contains 15-25 or more nucleotides, although it may contain fewer nucleotides. The factors involved in determining the appropriate length of primer are readily known to one of ordinary skill in the art. In general, the design and selection of primers embodied by the instant invention is according to methods that are standard and well known in the art, see Dieffenbach, C.W., Lowe, T.M.J., Dveksler, G.S.

30   (1995) General Concepts for PCR Primer Design. In: PCR Primer, A Laboratory Manual (Eds. Dieffenbach, CW, and Dveksler, G.S.) Cold Spring Harbor Laboratory Press, New York, 133-155; Innis, M.A., and Gelfand, D.H. (1990) Optimization of PCRs. In: PCR protocols, A Guide to Methods and Applications (Eds. Innis, M.A., Gelfand, D.H., Sninsky, J.J., and White, TJ.) Academic Press, San Diego, 3-12; Sharrocks, A.D. (1994)

The design of primers for PCR. In: PCR Technology, Current Innovations (Eds. Griffin, H.G., and Griffin, A.M, Ed.) CRC Press, London, 5-11.

As used herein, the term "probe" means oligonucleotides and analogs thereof and refers to a range of chemical species that recognise polynucleotide target sequences

5   through hydrogen bonding interactions with the nucleotide bases of the target sequences. The probe or the target sequences may be single- or double-stranded RNA or single- or double-stranded DNA or a combination of DNA and RNA bases. A probe is at least 8 nucleotides in length and less than the length of a complete gene. A probe may be 10, 20, 30, 50, 75, 100, 150, 200, 250, 400, 500 and up to 2000 nucleotides in length. Probes can

10   include oligonucleotides modified so as to have a tag which is detectable by fluorescence, chemiluminescence and the like. The probe can also be modified so as to have both a detectable tag and a quencher molecule, for example Taqman® and Molecular Beacon® probes.

As used herein, the term "product of the molecular marker" or "molecular marker

15   product" refers to the RNA or protein found in blood which corresponds to the molecular marker (ie is transcribed from the gene or genetic element or is translated from RNA which is transcribed from the gene or genetic element). For example, in some embodiments RNA resulting from the molecular marker can include one or more of the following species; hnRNA, niRNA, and/or one or more spliced variants of mRNA. In

20   some embodiments, proteins resulting from the molecular marker can include any proteins found in blood which correspond to the RNA resulting from the molecular marker.

As used herein, the term "selectively amplified" or "selective amplification", refers to a process whereby one or more copies of a particular target nucleic acid sequence is selectively generated from a template nucleic acid. Selective amplification or selectively

25   amplified is to be compared with amplification in general which can be used as a method in combination with, for example, random primers and an oligodT primer to amplify a population of nucleic acid sequences (e.g. mRNA). Selective amplification is preferably done by the method of polymerase chain reaction (Mullis and Faloona, 1987, Methods Enzymol. 155:335).

30   As used herein, the term "selectively binds" in the context of proteins encompassed by the invention refers to the specific interaction of any two of a peptide, a protein, a polypeptide, and an antibody, wherein the interaction preferentially occurs as between any two of a peptide, protein, polypeptide and antibody preferentially as compared with any other peptide, protein, polypeptide and antibody. For example, when the two molecules

34

are protein molecules, a structure on the first molecule recognises and binds to a structure on the second molecule, rather than to other proteins. "Selective binding", "Selective binding", as the term is used herein, means that a molecule binds its specific binding partner with at least 2-fold greater affinity, and preferably at least 10-fold, 20-fold, 50-fold,

5   100-fold or higher affinity than it binds a non-specific molecule.

As used herein "selective hybridization" in the context of this invention refers to a hybridization which occurs as between a polynucleotide encompassed by the invention and an RNA , and its complement thereof (ie a cDNA copy), of the molecular marker of the invention, wherein the hybridization is such that the polynucleotide preferentially binds to

10   the RNA products of the molecular marker of the invention relative to the RNA products of other molecular markers or other genes in the genome in question. In a preferred embodiment a polynucleotide which "selectively hybridizes" is one which hybridizes with a selectivity of greater than 70%, greater than 80%, greater than 90% and most preferably of 100% (i.e. cross hybridization with other RNA species preferably occurs at less than

15   30%, less than 20%, less than 10%). As would be understood to a person skilled in the art, a polynucleotide which "selectively hybridizes" to the RNA product of a biomarker of the invention can be determined taking into account the length and composition.

As used herein, "specifically hybridizes", "specific hybridization" refers to hybridization which occurs when two nucleic acid sequences are substantially

20   complementary (at least about 65% complementary over a stretch of at least 14 to 25 nucleotides, preferably at least about 75% complementary, more preferably at least about 90% complementary). See Kanehisa, M., 1984, Nucleic acids Res., 12:203, incorporated herein by reference. As a result, it is expected that a certain degree of mismatch is tolerated. Such mismatch may be small, such as a mono-, di- or tri-nucleotide.

25   Alternatively, a region of mismatch can encompass loops, which are defined as regions in which there exists a mismatch in an uninterrupted series of four or more nucleotides. Numerous factors influence the efficiency and selectivity of hybridization of two nucleic acids, for example, the hybridization of a nucleic acid member on an array to a target nucleic acid sequence. These factors include nucleic acid member length, nucleotide

30   sequence and/or composition, hybridization temperature, buffer composition and potential for steric hindrance in the region to which the nucleic acid member is required to hybridize. A positive correlation exists between the nucleic acid length and both the efficiency and accuracy with which a nucleic acid will anneal to a target sequence. In particular, longer sequences have a higher melting temperature (TM) than do shorter ones,

and are less likely to be repeated within a given target sequence, thereby minimizing non-specific hybridization. Hybridization temperature varies inversely with nucleic acid member annealing efficiency. Similarly the concentration of organic solvents, e.g., formamide, in a hybridization mixture varies inversely with annealing efficiency, while

5   increases in salt concentration in the hybridization mixture facilitate annealing. Under stringent annealing conditions, longer nucleic acids, hybridize more efficiently than do shorter ones, which are sufficient under more permissive conditions.

As used herein, the term "specifically binds" refers to the interaction of two molecules, e.g., a ligand and a protein or peptide, or an antibody and a protein or peptide

10   wherein the interaction is dependent upon the presence of particular structures on the respective molecules. For example, when the two molecules are protein molecules, a structure on the first molecule recognises and binds to a structure on the second molecule, rather than to proteins in general. "Specific binding", as the term is used herein, means that a molecule binds its specific binding partner with at least 2-fold greater affinity, and

15   preferably at least 10-fold, 20-fold, 50-fold, 100-fold or higher affinity than it binds a non-specific molecule.

As herein used, the term "standard stringent conditions" and "stringent conditions" means hybridization will occur only if there is at least 95% and preferably, at least 97% identity between the sequences, wherein the region of identity comprises at least 10

20   nucleotides. In one embodiment, the sequences hybridize under stringent conditions following incubation of the sequences overnight at 42DC, followed by stringent washes (0.2X SSC at 65D C). The degree of stringency of washing can be varied by changing the temperature, pH, ionic strength, divalent cation concentration, volume and duration of the washing. For example, the stringency of hybridization may be varied by conducting the

25   hybridization at varying temperatures below the melting temperatures of the probes. The melting temperature of the probe may be calculated using the following formulas:

For oligonucleotide probes, between 14 and 70 nucleotides in length, the melting temperature (Tm) in degrees Celcius may be calculated using the formula:

$Tm=81.5+16.6(\log [Na+]) + 0.41 (\text{fraction } G+C)-(600/N)$ where N is the length of the

30   oligonucleotide.

For example, the hybridization temperature may be decreased in increments of 5°C from 68°C to 42°C in a hybridization buffer having a Na+ concentration of approximately IM. Following hybridization, the filter may be washed with 2X SSC, 0.5% SDS at the

temperature of hybridization. These conditions are considered to be "moderate stringency" conditions above $50^{0}C$ and "low stringency" conditions below $50^{0}C$. A specific example of "moderate stringency" hybridization conditions is when the above hybridization is conducted at $55^{0}C$. A specific example of "low stringency" hybridization conditions is

5   when the above hybridization is conducted at $45^{0}C$.

If the hybridization is carried out in a solution containing formamide, the melting temperature of the annealing nucleic acid strands may be calculated using the equation $Tm=81.5+16.6(\log [Na +]) + 0.41(\text{fraction } G + C)-(0.63\% \text{ formamide})-(600/N)$, where N is the length of the probe.

10   If the hybridization is carried out in a solution containing formamide, the melting temperature of the annealing nucleic acid strands may be calculated using the equation $Tm=81.5+16.6(\log [Na +]) + 0.41(\text{fraction } G + C)-(0.63\% \text{ formamide})-(600/N)$, where N is the length of the probe.

For example, the hybridization may be carried out in buffers, such as 6X SSC,

15   containing formamide at a temperature of $42^{0}C$. In this case, the concentration of formamide in the hybridization buffer may be reduced in 5% increments from 50% to 0% to identify clones having decreasing levels of homology to the probe. Following hybridization, the filter may be washed with 6X SSC, 0.5% SDS at 50 DC. Hybridization conditions are considered to be "moderate stringency" conditions when hybridization

20   fluids are comprised of above 25% formamide and "low stringency" conditions when hybridization fluids are comprised of below 25% formamide. A specific example of "moderate stringency" hybridization conditions is when the above hybridization is conducted at 30% formamide. A specific example of "low stringency" hybridization conditions is when the above hybridization is conducted at 10% formamide.

25   As used herein, the term "responder" is used to mean an individual who responds to treatment. The use of the term "responds to treatment" depends upon the context of the treatment and the disease or condition, but in some embodiments indicate a sufficiently effective and safe response by an individual to the administration of treatment.

As used herein, the term "non-responder" is used to mean an individual who does

30   not respond positively to treatment. The use of the phrase "does not respond to treatment" also depends upon the context of the treatment and the disease or condition, but in some embodiments indicates an ineffective or unsafe response by an individual to the administration of treatment.

As used herein, the term "trait" is a mode or state of being including a physical, emotional, psychological or pathological state. A trait can include both "genetic" and/or "environmentally" influenced factors. The term "genetic factors" means genetically inherited elements which affect one or more traits as a result of the genetic makeup of the

5   individual. The term "environmental factors" includes exposure to internal or external influences including but not limited to medical treatments, non-medical drugs, pollution, environmental toxins, lead poisoning, mercury poisoning, exposure to genetically modified organisms, radioactivity, pesticides, insecticides, cigarette smoke, alcohol, or exercise and can affect abundance of RNA or affect gene expression as a result of epigenetic mutations

10   and/or non genetic mutations. A physiological or pathological trait can include the status with regards to a condition including having a condition including a disease, having risk factors of a disease having a certain stage of disease or having a certain response to treatment or a risk of a certain response to treatment. In some cases a displayed trait can actually be the result of one or more underlying traits. A trait also includes clinically

15   measurable parameters including those clinically measurable parameters which are indicators of state of health or disease. For example, a clinically measurable parameter includes blood pressure, lung capacity, electrolyte level, enzyme levels (e.g. Serum Glutamic Oxaloacetic Transaminase, alkaline phosphatase, Gamma-Glutamyltransferase or Gamma-Glutamyl Transpeptidase, Lactic dehydrogenase) hormone levels (e.g. thyroid

20   stimulating hormone); protein levels (e.g. Prostate specific antigen PSA) and the like. Clinically measurable parameters can include disease specific clinical indicators, for example prostate specific antigen as an indicator of prostate cancer; insulin levels as an indicator of diabetes; thyroid stimulating hormone levels as an indicator of thyroid disorder and the like.

25   As used herein, the term "trait subgroup" is used to define a group of subjects where each subject has at least one trait or group of traits in common, for example, each subject has a disease, a specific stage of disease, same response to treatment, taking the same drug, etc.

As used herein, the terms "treatment", "treat", and "treating" includes

30   administration of one or more compounds, combination of one or more compounds, application of a non-compound based therapeutic regimen, or any combination thereof where administration includes application of a single treatment, a regiment or course of treatment etc. to reduce or amelioration of the progression, severity and/or duration of a

disease or condition and/or the reduction or amelioration of the symptoms of a disease or
condition resulting from the use of a treatment and/or treatment regime.

5.1   INVENTIVE SYSTEMS AND ALGORITHMS

Fig. 1 shows an exemplary system according to an embodiment of the invention
5   that supports the functionality described herein. The system is preferably a computer
system 10 having:

- •   one or more central processors 22;

- •   a main non-volatile storage unit 14, for example a hard disk drive, for
        storing software and data, the storage unit 14 controlled by storage
10   controller 12;

- •   a system memory 36, preferably high speed random-access memory
        (RAM), for storing system control programs, data, and application
        programs, comprising programs and data loaded from non-volatile storage
        unit 14; system memory 36 may also include read-only memory (ROM);

15   •   an optional user interface 32, comprising one or more input devices (e.g.,
        keyboard 28) and a display 26 or other output device;

- •   an optional network interface card 20 for connecting to any wired or
        wireless communication network 34 (e.g., a wide area network such as the
        Internet);

20   •   an internal bus 30 for interconnecting the aforementioned elements of the
        system; and

- •   a power source 24 to power the aforementioned elements.

Operation of computer 10 is controlled primarily by operating system 40, which is
executed by central processing unit 22. Operating system 40 can be stored in system
25   memory 36. In addition to operating system 40, in a typical implementation, system
memory 36 includes various components described below. Those of skill in the art will
appreciate that such components can be wholly resident in RAM 36 or non-volatile storage
unit 14. Furthermore, at any given time, such components can partially reside both in
RAM 36 and non-volatile storage unit 14. Further still, some of the components shown in
30   Fig. 1 as being resident in RAM 36 can be resident in another computer (a remote
computer) that is addressable by computer 10 over wide area network 34. It will be
appreciated that such a remote computer may physically be resident in the same room as
computer 10 or in another physical location. As illustrated in Fig. 1, in one exemplary

embodiment of the invention, RAM 36 comprises <u>programs and data to interact with</u>
<u>components in the computer system 10 for configuring</u>:

- file system 42 for controlling access to the various files and data structures used by embodiments of the present invention;

5
- a training population 44 for use in construction of one or more classifiers ;

- a molecular marker data processing module I- 54 for processing molecular marker data representative of a genome or a portion thereof for members of training population 44;

- a molecular marker screening module A (56A) for identifying molecular

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markers whose molecular marker data individually discriminates between two or more trait subgroups of the training population using molecular marker data of module 54;

- a molecular marker screening module B (56B) for identifying molecular markers whose molecular marker data do not individually discriminate, but

15
demonstrate ability to differentiate between two or more trait subgroups of the training population when used in combination using molecular marker data of module 54;

- a candidate molecular marker data structure 58 for storing information about candidate molecular markers identified by molecular marker

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candidate screening module 56A and optionally molecular marker candidate screening module 56B;

- a second molecular marker data processing module II 6 1 for processing additional molecular marker data for a selection of the candidate molecular markers identified in screening module 56A and, optionally, screening

25
module 56B for members of a training population;

- an outlier selection module 57 for evaluating molecular marker data identified in either module 56A and/or 56B or module 6 1 so as to remove one or more individuals from the training population as outliers;

- a combination module 61-5 which selects combinations of molecular

30
markers from candidate molecular markers identified in module 56A and optionally module 56B

- a molecular marker classifier construction module 62 for constructing candidate classifiers from combinations of molecular markers identified by molecular marker combination module 61-5;

- a molecular marker classifier evaluation module 64 for evaluating and selecting candidate classifiers constructed by molecular marker construction module 62;

- a classifier polling and reporting module 66 for receiving patient or subject molecular marker data and polling one or more classifiers selected by evaluation module 64 in order to determine whether a patient or subject has the disease or trait associated with each of the respective classifiers;

- a patient database 68 for storage of molecular marker data for diagnostic, prognostic or predictive use; and

- a classifier database 70 for storage of one or more classifiers selected by molecular marker classifier evaluation module 64.

As illustrated in Fig. 1, computer 10 comprises software program modules and data structures. The data structures either stored in computer 10 or accessible to computer 10 include a training population 44, candidate molecular marker data structures 58, patient database 68, and classifier database 70. Each of these data structures can comprise any form of data storage system including, but not limited to, a flat ASCII or binary file, an Excel spreadsheet, a relational database (e.g. SQL), or an on-line analytical processing (OLAP) database (MDX and/or variants thereof). In some specific embodiments, such data structures are each in the form of one or more databases that include hierarchical structure (e.g., a star schema). In some embodiments, such data structures are each in the form of databases that do not have explicit hierarchy (e.g., dimension tables that are not hierarchically arranged).

In some embodiments, each of the data structures stored or accessible to system 10 are single data structures. In other embodiments, such data structures in fact comprise a plurality of data structures (e.g., databases, files, archives) that may or may not all be hosted by the same computer 10. For example, in some embodiments, training population 44 comprises a plurality of Excel spreadsheets that are stored either on computer 10 and/or on computers that are addressable by computer 10 across wide area network 34. In another example, patient database 68 comprises a database that is either stored on computer 10 or is distributed across one or more computers that are addressable by computer 10 across wide area network 34. Section 5.9 describes exemplary architectures for training population 44, candidate molecular marker data structure 58, patient database 68, and/or classifier database 70.

It will be appreciated that many of the modules and data structures illustrated in Fig. 1 can be located on one or more remote computers. For example, some embodiments of the present application are web service-type implementations. In such embodiments, classifier polling and reporting module 66 and other modules can be used by a physician to

5   treat a patient and can reside on a client computer that is in communication with computer 10 via network 34. In some embodiments, for example, classifier polling and reporting module 66 can be an interactive web page.

In some embodiments, training population 44, candidate molecular marker data structure 58, patient database 68 and/or classifier database 70 and modules *(e.g.* modules

10   54, 56A, 56B, 57, 61, 61-5, 62, 64, and *66)* illustrated in Fig. 1 are on a single computer (computer 10) and in other embodiments one or more of such data structures and module are hosted by one or more remote computers (not shown). Any arrangement of the data structures and software modules illustrated in Fig. 1 on one or more computers is within the scope of the present invention so long as these data structures and software modules

15   are addressable with respect to each other across network 34 or by other electronic means. Thus, the present invention fully encompasses a broad array of computer systems.

Now that an overview of a system in accordance with one embodiment of the present invention has been described, various advantageous methods in accordance with embodiments of the present invention will now be disclosed in conjunction with Figs. 2

20   through 5. Figure 2 is a flowchart showing a method of selecting molecular markers and developing one or more classifiers or groups of classifiers according to an embodiment of the invention.

Step 202.

Referring to Fig. 2A, in step 202, molecular marker data reflective of the

25   abundance of each of a plurality of RNA and/or proteins found in the blood for members of training population 44 is obtained using one or more of the techniques as described in Section 5.3 and/or 5.4. In some embodiments, the data is reflective of the abundance of RNA products of the molecular marker. In some embodiments, the RNA products are those expressed in blood. In other embodiments, the RNA products are those which are

30   found in blood, but may not necessarily be expressed in blood *(e.g.* in instances where sufficient mRNA is transported into the blood to be detected. In some embodiments, the data is reflective of the abundance of protein products of the molecular markers. In some embodiments, the data is reflective of the level of proteins expressed in blood. In other embodiments, the data is reflective of proteins found in blood in sufficient quantity to be

detected. Measuring of molecular marker data (ie data reflective of the level of the product
of the molecular marker) can be done using those techniques known to persons skilled in
the art. Note that in some embodiments, data may be obtained using public sources or
other sources of data rather than performing one or more of the techniques described. For

5   example, it is anticipated that databases of microarray data collected from blood may be
available in future.

In some embodiments, the molecular marker data for each molecular marker is
obtained using the same technique to allow greater comparability. In some instances *a
priori* information is known about all or a portion of such genes and in some embodiments

10   *apriori* information about such genes is either not known or not considered in step 202. In
some embodiments the molecular markers resulting from step are those molecular markers
identified in Tables 1A through to 71.

Measurement of molecular marker data of a plurality of the molecular markers in
the blood of each member of training population 44 can be done using any known

15   technique and preferably is done using large scale techniques which allow for the ability to
obtain data for a large number of molecular markers and/or for a large number of
individuals quickly and efficiently and at a relatively low cost. For example, microarray
techniques and RT-PCR and/or Quantitative RT-PCR can be useful large scale techniques.
For example, a high throughput or large scale technique is a technique which allows one to

20   obtain data for large numbers of genes concurrently e.g. 1,000 genes, 5,000 genes, 10,000
genes, 15,000 genes 30,000 genes; or all of the genes of the genome of interest. It is
expected that additional techniques are being developed and are also useful in
embodiments of the invention to screen large numbers of genes quickly and efficiently.

Training population 44 includes a population of individuals made up of one or

25   more trait subgroups with each individual in such trait subgroups having one or more
traits.

In some embodiments, each trait subgroup represented in training population 44
includes molecular marker data from at least 3-4 different subjects. More preferably, each
trait subgroup represented in training population 44 includes molecular marker data for at

30   least ten different subjects. Still more preferably each trait subgroup represented in the
training population 44 includes molecular marker data for at least 30, 40, 50, 100, 200,
500, 1000 or more subjects.

Each training population is selected to include two or more trait subgroups, each
subgroup comprising trait subgroup members. Each of these two or more trait subgroups

differs with respect to a trait of interest and/or an aspect of a trait of interest. In one embodiment, the members of each of the trait subgroups have been diagnosed as having or not having the trait of interest by one or more known techniques. In another embodiment, the members of each trait subgroup are diagnosed for having or not having the trait of

5   interest using a well accepted methodology for diagnosing of said trait.

For example, each member of a first trait subgroup of the training population has liver cancer, whereas each member of a second trait subgroup of the training population does not have liver cancer. In another embodiment, each member of a first trait subgroup of the training population has Alzheimer's, whereas each member of a second trait

10   subgroup of the training population has manic depressive disorder, and each member of a third trait subgroup of the training population has schizophrenia, and each member of a fourth trait subgroup does not have any of the above conditions. In another example, the trait of interest is a disease such as prostate cancer, and the aspect of interest is the degree of advancement of the prostate cancer. Thus, each member of the first trait subgroup can

15   be those subjects that have early stage prostate cancer, each member of a second trait subgroup can be those subjects that have later stage prostate cancer and each member of a third trait subgroup can be those subjects that do not have prostate cancer. In another example, the trait of interest is responsiveness of individuals having musculoskeletal disorders to a Cox 2 inhibitor. A first trait subgroup is comprised of individuals who are

20   responsive to a treatment, a second trait subgroup is comprised of individuals who are responsive to treatment but demonstrate a toxic side-effect, and a third trait subgroup is comprised of individuals who are nonresponsive to treatment. In another embodiment, one trait subgroup can include those subjects that have not yet undergone treatment but who are later identified as being responders to treatment and a second trait subgroup can

25   include those subjects that have not yet undergone treatment but who are later identified as non responders *(e.g.* demonstrates a toxic side-effect, demonstrates no improvement in condition, demonstrates a worsening of condition, *etc.).*

In some embodiments, members of each trait subgroup of the training population 44 are preferably selected such that each trait subgroup of the training population 44 has a

30   similar distribution with respect to at least one, two, three, four, five, six, one or more, two or more, three or more, four or more, five or more, six or more, between one and 1000 other traits. For example, age, sex, body mass index (BMI), genetic variation information *(e.g.,* gene SNP mutations, restriction fragment length polymorphisms, microsatellite markers, restriction fragment length polymorphisms, and presence, absence or

characterization of short tandem repeats.), treatment regimens; co-morbidities; concentrations of metabolites, blood chemistry levels, and/or other indicators of health and/or wellness.

A treatment can include, but is not limited to, disease modifying treatments as well as treatments useful in mitigating the symptoms of disease and includes administration of one or more compounds, combinations of one or more compounds, application of a non-compound based therapeutic regimen, or any combination thereof where administration includes application of a single treatment, a regimen or course of treatment and the like. For example, treatments can include drugs specific for a disease such as drugs specific for Alzheimer's, cardiovascular disease, manic depression syndrome, schizophrenia, diabetes cancers including liver cancer, testicular cancer, bladder cancer, prostate cancer, kidney cancer, breast cancer, colon cancer, osteoarthritis, rheumatoid arthritis, osteoporosis, ankylosing spondylitis, or any other disease including those listed herein. . For example, treatments can include but are not limited to administration of VIOXX®, Celebrex®, non-steroidal anti-inflammatory drugs (NSAIDS), cortisone, visco supplement, Lipitor®, Adriamycin®, Cytoxan®, Herceptin®, Nolvadex®, Avastin®, Erbitux®, Fluorouracil®, Largactil®, Sparine®, Vesprin®, Stelazine®, Fentazine®, Prolixin®, Compazine®, Tindal®, Modecate®, Moditen®, Mellarin, Serentil, Norvane, ®, Fluanxol®, Clopixol®, Taractan®, Depixol®, Clopixol®, Haldol®, Haldol®, Decanoate, Orap®, Inapsine®, Imap®, Semap®, Loxitane®, Daxol®, lithium, anticonvulsants (e.g., carbamazepine), antidepressants, and/or Moban®. More generally, a treatment can include any treatment or drug described in the *Compendium of Pharmaceuticals and Specialties,* Canadian Pharmaceutical Association; 26th edition, June, 1991; Krogh, *Compendium of Pharmaceuticals and Specialties,* Canadian Pharmaceutical Association; 27th edition, April, 1992. In another embodiment, a treatment can include administration of any compound described in the United States Food and Drug Administration list of approved drug products (the "Orange Book") that is found at http://www.mco.edu/research/fda.html.

In some embodiments, molecular marker data is not obtainable from each member of a training population or each member of a trait subgroup (for example, using microarray technology there may be an insufficient signal for one or more molecular markers for any particular member of the training population). Nevertheless, as would be understood by a person skilled in the art, candidate molecular markers can still be selected on the basis of the molecular marker data so long as data is obtainable for a sufficient number of molecular markers from a sufficient number of members of the training population. For

example, for each molecular marker, it is sufficient if data is available for at least 75%, 80%, 85%, 90% or 95% of the each trait subgroup of the training population.

Section 5.2 provides details on the types of blood samples from subjects in the training population that can be used to obtain data for molecular markers. Section 5.2

5   further provides details on how such blood samples can be obtained. Section 5.2 also provides details on the types of subjects that can be used to form training population 44 and the types of subpopulations that can be used in the training population.

Fig. 1 illustrates the data structure of a training population 44 in accordance with one embodiment of the present invention. There is a record 46 for each subject in training

10   population 44. Each record 46 includes an optional subject identifier 48 for uniquely identifying the subject. Each record 46 includes a molecular marker data file 50 for storage of the molecular marker data measured in step 202. Fig. 4 provides more details on a molecular profile 50 resulting from Molecular Marker data processing module I in accordance with one embodiment of the present invention. The molecular profile 50 of

15   Fig. 4 includes an identifier 302 for each molecular marker 302 tracked by profile 50. Then, for each respective molecular marker 302 in profile 50, there exists one or more measurements of molecular marker data 304. In some embodiments, more than one data point is measured for molecular markers 302. If more than one data point is measured for a molecular marker, then a statistical measure of central tendency (e.g. mean, median,

20   average etc.) can be computed. Accordingly, such measurements for molecular marker data 304 can be stored in data structure 50.

There exists a trait characterization field 52 for each subject in training population 44. Preferably as many as possible traits of each member of training population 44 are documented in a trait characterization record (52). Documented traits include known

25   condition or clinically measurable parameters; genetic likelihood of disease or condition; medications both past and current; environmental exposures, ethnicity, age, sex and the like. In some embodiments, training population 44 includes only two trait subgroups and trait characterization 52 is a binary choice between two values, where one value indicates that the corresponding subject belongs in a first trait subgroup and a second value indicates

30   that the subject belongs in a second trait subgroup. In some embodiments, training population 44 is divided into a plurality of lists, where each list in the plurality of lists represents a different trait subgroup. In such embodiments, there is no need for a phenotypic characterization field 52.

Although not illustrated in Fig. 1, in some embodiments, there exists a scoring population in addition to the training population. The scoring population is used to evaluate each of the classifiers derived from the training population. The scoring population is made up of one or more individuals that have at least two trait subgroups in

5   common with the training population. In some embodiments, multiple scoring populations are generated from the training population using one or more resampling or cross validation procedures including: bootstrapping; leave one out; leave n out; percent split and the like so as to evaluate the classifiers derived from the training population. In preferred embodiments, the members of the scoring population are not the members used

10   in the training population.

In some embodiments, some aspects of step 202 are performed by first data molecular processing module I 54. As such, first data molecular processing module 54 can be a known software program, such as commercially available and/or academically available data processing programs.

15   *Step 204.*

In step 204, using the data measured in step 202, individual candidate molecular markers are identified, where the molecular marker data allows the differentiation as between two of the trait subgroups of the training population. In some embodiments, step 204 represents a series of pairwise comparisons, where each pairwise comparison is

20   between molecular marker data for subjects from two different trait subgroups. In other words, data associated with molecular markers from a population of samples having one aspect of a trait of interest (a first trait subgroup) are compared with a population of samples having a second aspect of a trait of interest (a second trait subgroup) so as to identify molecular markers that are able to differentiate between the two trait subgroups (ie

25   the molecular marker data enables the ability to differentiate between the two trait subgroups.

In instances where more than two trait subgroups are represented by a training population 44, more than two pairwise comparisons can be performed on the molecular marker data to identify lists of candidate molecular markers for each of the possible

30   pairwise comparison.

A number of statistical techniques can be used to perform the pairwise comparisons of step 204. In some embodiments, standard statistical techniques such as a t-test are used. Methods based on conventional t-tests provide the probability *(P)* that a difference in measured values for the data of a molecular marker between two different trait subgroups

occurs by chance. See, for example, Baldi *et al,* 2001, Bioinformatics 17, pp. 509-519, 2001, which is hereby incorporated herein by reference in its entirety. The t-test compares the actual difference between two means in relation to the variation in the data (expressed as the standard deviation of the difference between the means). For instance, to determine

5   whether a particular molecular marker discriminates between a first trait subgroup and a second trait subgroup, the mean of the data for the molecular marker in the first trait subgroup is compared to the mean of the data for the molecular marker in the second subgroup in accordance with the t-test. In some embodiments, the molecular marker data is such that it is deemed to discriminate between two trait subgroups when the t-test yields

10   a score that matches or exceeds the $p = 0.05$ level (95% confidence, "significant confidence"), the/? $= 0.01$ level (99% confidence, "highly significant confidence") or$p =$ 0.001 (99.9% confidence, "very highly significant confidence"). In some embodiments, the t-test is applied with a Bonferroni correction or similar form of correction, hi some embodiments, rather than using a t-test, nonparametric equivalents such as the Wald-

15   Wolfowitz runs test, the Mann-Whitney U test, the Kolmogorov-Smirnov two-sample test or ROC are used.

In some embodiments, training population molecular marker data is obtained using a microarray and the Significant Analysis of Microarrays technique of Tusher *et al.* is used to identify molecular markers whose data discriminates between trait subgroups. See, for

20   example, Tusher *et al ,* 2001, Proc. Natl. Acad. Sci. USA 98, 5116-5121. In some embodiments, Manduchis' algorithms for assigning confidence to differentially expressed genes is used to identify molecular markers whose data discriminates trait subgroups. See, for example, Manduchi *et al,* 2000, Bioinformatics 16, 685-598.

In some embodiments, there are a number of different trait subgroups represented

25   within the training population. Thus, in such embodiments, application of a series of pairwise t-test can become computationally intensive and prone to underinclusiveness in the identification of discriminating molecular markers resulting for each binary comparison since the number of pairwise comparisons that must be performed grows quickly as a function of the number of trait subgroups present in training population 44.

30   For example, if there are seven trait subgroups present in training population 44, a total of 21 pairwise (t-test class) test can be performed. In such embodiments, analysis of variance (ANOVA) can be used to simultaneously consider whether the data for a molecular marker produces statistically different means for each of the phenotypic data structures. ANOVA considers the data for a given molecular marker from each of the trait subgroups present in

training population 44 and produces a single number (the F-statistic) that can be evaluated for significance at any desired confidence value (e.g., the/? = 0.05 level, the/? = 0.01 level, the/?=0.001 level, *etc)*. ANOVA is described, for example, in Draghici, *Data Analysis Tools For DNA Microarrays,* 2003, Chapman & Hall, CRC Press, New York, pp. 155-187,

5   which is hereby incorporated herein by reference in its entirety. In some embodiments, nonparametric equivalents to ANOVA, such as the *Kruskal-Wallis analysis of ranks* test, the Median test, Friedman's two-way analysis of variance, or the Cochran Q test, are used to identify molecular markers that have statistically different means as between two of the rait subgroups. In some embodiments, after running ANOVA, a means comparisons test

10   such as Duncan's, Student-Newman-Keuls (SNK), Tukey-Kramer, Tukey's HSD, or Least Significant Difference (LSD) are run to determine which molecular markers have data that statistically differentiates as between one or more of the trait subgroups tested (e.g. has statistically different values in one or more of the trait subgroups tested). In some embodiments, such tests are performed instead of ANOVA or pairwise *t*-tests to identify

15   molecular markers that discriminate two or more trait subgroups.

In some embodiments, a parametric test and a nonparametric test are run in step 204. If there are only two trait subgroups being compared *(e.g.,* non-disease versus disease) then a Welch t-test (parametric test) and a Mann-Whitney test are used without multiple test corrections at decreasing p-values *{e.g.,* $p < 0.05$, $p < 0.01$, $p < 0.005$, $p <$

20   0.001, etc.) until the number of candidate molecular markers is less than 50, less than 100, less than 150, less than 200, less than 250 etc.. If three or more trait subgroups are being compared, the Kruskal-Wallis (nonparametric) and Welch ANOVA (parametric) tests are used. Following the same procedure for instances where only two trait subgroups are being compared, additional molecular marker sets are produced in conjunction with

25   multiple test corrections. An example of a test correction is the Benjamin-Hochberg false discovery rate. In some embodiments the post-hoc statistical tests for groups of three or more provided in GeneSpring version 6.1+ is used. The post-hoc test provides a means for determining which molecular markers are different between particular trait subgroups. Such post-hoc tests include the Student Newman Keuls test and the Tukey test.

30   In some embodiments, data for a test molecular marker from all possible trait subgroups in training population 44 is not used. Rather, similar to the case where pairwise t-tests are used, ANOVA is used to determine whether the data for a molecular marker can discriminate between some or all of the trait subgroups. For example, consider the case in which training population 44 includes five trait subgroups. In one approach, a pairwise t-

test can be used to identify molecular markers that statistically discriminate (e.g. $p = 0.05$) between one of the possible pairs of trait subgroups in the training population. Similarly, ANOVA can be used to identify molecular markers that statistically discriminate between one of the possible triplets in the training population. Alternatively, ANOVA can be used

5   to identify molecular markers that statistically discriminate between one of the possible quadruplets in the training population.

In some embodiments, either in addition to using statistical methods, or independently of statistical methods such as described herein, processing step 204 to select candidate molecular markers is done by looks for differential data abundances (e.g.,

10   differential expression). Such methods differ from those described above in the sense that variance as between the level of expression as between members of the same trait subgroup are not necessarily considered. In order to compare differential expression as between two or more trait subgroups, a statistical measure of central tendency (e.g. mean, median, average etc.) can be computed for each molecular marker within any trait

15   subgroup. In some embodiments, the measure of differential data abundance (or differential expression) for a molecular marker product as between a first trait subgroup and a second trait subgroup is determined by measuring the fold change, for example a fold change of greater than 1.5, 2.0, 2.5, 3.0, 4,0 or higher can be selected.. In another embodiment, the measure of differential data abundance need not be quantified, but

20   molecular markers products which on visual inspection display a clear difference in expression (ie abundance levels) as between two trait subgroups can be selected. To illustrate, consider a population P' that comprises trait subgroups "A" and "B". That is, each member of P' is classified into either subgroup "A" or "B" based on whether or not they exhibit or have a particular trait. In this situation, products of molecular markers that

25   are present in large quantities/abundance in one group ("A" or "B") but not the other group are identified. For instance, molecular markers that strongly express in subgroup "A" but not in subgroup "B" can be identified from the measurements taken for each member of each subgroup in step 202. Likewise, molecular markers that express strongly in subgroup "B" but not subgroup "A" can be identified. These patterns of differential abundance of

30   the products of the molecular markers can be used to identify candidate molecular markers. For an illustration of this approach, see Glob et al. 1999, Science 286: 531.

In embodiments where molecular markers are identified in select pairwise tests, such as pairwise *t*-tests or ANOVA tests of subsets of the total number of trait subgroups in training population 44, there might be several different lists of molecular markers. For

example, molecular marker list A might include molecular markers whose measured data (including normalized data etc.) discriminates between a first and second trait subgroup as determined by a first pairwise *t*-test. Molecular marker list B might include molecular markers whose data discriminates between a first and third trait subgroup as determined by

5 a second pairwise t-test. Molecular marker list C might include molecular markers whose data discriminates between a first, second and third trait subgroup as determined by ANOVA. In some embodiments, each candidate molecular marker list 60 is preserved as an independent list in candidate molecular marker data structure 58 (Fig. 1).

In some embodiments, processing step 204 identifies a total of between 10 and

10 4000 candidate molecular markers for any particular training population. In other embodiments, step 204 identifies a total of between 500 and 2000 candidate molecular markers. In yet another embodiments, processing step 204 identified a total of between 100 and 1000 candidate molecular markers.

In some embodiments, some aspects of step 204 are performed by molecular

15 marker candidate identification module 56A. Additionally, there exist known programs that can perform some of the functionality described in step 204. Such programs include those formerly sold by Silicon Genetics (e.g. GeneSpring™); now Agilent Technologies.

In some embodiments, candidate molecular markers identified using the above-described statistical or nonstatistical tests are clustered in order to visualize relationships

20 between the genes. For example, in some embodiments GeneSpring™ is used to perform hierarchical clustering using the Spearman correlation statistic. In some embodiments, QT clustering is used to identify genes that have a similar pattern of expression across the specimens in training population 44. Clustering that can be employed in step 204 is described generally in Section 5.12. Further, Section 5.12 gives examples of some

25 clustering techniques that can be used in step 204. Molecular markers for use in subsequent sections (e.g., for quantitative measurement using methods as described in step 206 below) can be ranked and selected by one or more criteria, including, but not limited to, fold change differences in molecular marker data between two or more trait subgroups, standard deviations of molecular marker data as between two or more trait subgroups using

30 the above-described statistical tests, coefficient of variation, statistical significance (e.g., p-value from ANOVA and/or Mest, or other tests described above), level of expression as determined using molecular marker data, gene function, reproducibility of molecular marker data (includes intra- and inter-experimental), elucidated pathways / networks of the molecular markers as would be understood by a person skilled in the art (e.g. selecting a

molecular marker on the basis of an understanding of how said gene is known to function in the body) and the like. Thus in some embodiments, molecular markers for use in subsequent sections are chosen on the basis of the p value identified as a result of step 204 as a measure of the likelihood that the molecular marker data can distinguish as between the two trait subgroups and more particularly molecular markers are chosen wherein the p value is less than 0.5; less than 0.1, less than 0.05, less than 0.01, less than 0.005, less than 0.001, less than 0.0005, less than 0.0001, less than 0.00005, less than 0.00001, less than 0.000005, less than 0.000001 etc. In some embodiments, molecular markers for subsequent steps are chosen on the basis of the level of differential expression displayed by the molecular marker products as between the two or more trait subgroups. Note that in measuring differential fold change in blood, the fold change differences can be quite small, thus in some embodiments, selection of molecular markers is based on a differential fold change where the fold change is greater than 1.2, greater than 1.3, greater than 1.4, greater than 1.5, greater than 1.6, greater than 1.7, greater than 1.8, greater than 1.9, greater than 2.0, greater than 2.1, greater than 2.2, greater than 2.3, greater than 2.4, greater than 2.5, greater than 2.6, greater than 2.7, greater than 2.8, greater than 2.9, greater than 3.0, greater than 3.1, greater than 3.2. greater than 3.3, greater than 3.4 greater than 3.5, greater than 4.0 and the like. In some embodiments, it is helpful to select molecular markers on a basis of the combination of both p value and fold change as would be understood by a person skilled in the art. Thus in some embodiments, molecular markers are first selected as outlined above on the basis of the p value resulting from the molecular marker data and then a subselection of said molecular markers is chosen on the basis of the differential fold change determined from the molecular marker data. In other embodiments, molecular markers are first selected on the basis of differential fold change, and then subselection is made on the basis of p value, In some embodiments, the use of one or more of the selection criteria and subsequent ranking permits the selection of the top 2.5%, 5%, 7.5%, 10%, 12.5%, 15%, 17.5%, 20%, 30%, 40%, 50% or more of the ranked molecular markers for use in subsequent steps. In other embodiments, the selection criteria noted above can be set on the basis of the desired number of selected molecular markers for use in steps 206 and or other steps leading to the selection of the available set of markers for step 214. As would be understood, a selection criteria based on the desired number of selected molecular markers will depend upon the resources available for obtaining the molecular marker data for step 206 and/or the computer resources available for calculating and evaluating classifiers of all or a portion of possible combinations of the selected molecular

markers. In some embodiments, the desired number of selected molecular markers for use in step 214 can be 4,000; 3,000; 2,000; 1,000; 900; 800; 700; 600; 500; 400; 300; 200; 190; 180; 170; 160; 150; 140; 130; 120; 110; 100; 90; 80; 70; 60; 50; 40; 30; 20; 10. The more molecular markers which can be selected for use in step 214; the greater the

5   likelihood of identifying classifier or classifiers which are particularly useful for diagnosis.

In some embodiments, one or more subjects of the training population are identified as outliers and are removed prior to identifying individual candidate molecular markers as described herein. These outlier members can then be removed from the training population prior to proceeding to later steps. As described herein, in one

10   embodiment a neural network is used to identify such outliers. A neural network has a layered structure that includes, at a minimum, a layer of input units (and the bias) connected by a layer of weights to a layer of output units. Such units are also referred to as neurons. For output along a single dimension, the layer of output units includes just one output unit. However, neural networks can handle multiple quantitative responses (outputs

15   along multiple dimensions) in a seamless fashion by providing multiple units in the layer of output units.

In multilayer neural networks, there are input units (input layer), hidden units (hidden layer), and output units (output layer). There is, furthermore, a single bias unit that is connected to each unit other than the input units. Neural networks are described in

20   Duda *et al*, 2001, *Pattern Classification*, Second Edition, John Wiley & Sons, Inc., New York; and Hastie *et al*, 2001, *The Elements of Statistical Learning*, Springer-Verlag, New York.

The basic approach to the use of neural networks to identify outliers is to start with an untrained network. A training pattern is then presented to the untrained network. This

25   training pattern comprises a training population and, for each respective member of the training population, an association of the respective member with a specific trait subgroup. Thus, the training pattern specifies measured molecular marker data from blood for molecular markers for each member of a training population as well as an indication as to which trait subgroup each member of the training population belongs. In preferred

30   embodiments, training of the neural network is best achieved when the training population includes members from more than one trait subgroup.

In the training process, individual weights in the neural network are seeded with arbitrary weights and then the molecular marker data for each member of the training population is applied to the input layer. Signals are passed through the neural network and

the output determined. The output is used to adjust individual weights. A neural network trained in this fashion classifies each individual of the training population with respect to one of the input trait subgroups. In typical instances, the initial neural network does not correctly classify each member of the training population. Those individuals in the

5   training population that are misclassified identify and determine an error or criterion function for the initial neural network. This error or criterion function is some scalar function of the trained neural network weights and is minimized when the network outputs match the desired outputs. In other words, the error or criterion function is minimized when the network correctly classifies each member of the training population into the

10   correct trait subgroup. Thus, as part of the training process, the neural network weights are adjusted to reduce this measure of error. For regression, this error can be sum-of-squared errors. For classification, this error can be either squared error or cross-entropy (deviation). See, *e.g.* Hastie *et al.*, 2001, *The Elements of Statistical Learning*, Springer-Verlag, New York. Those individuals of the training population which are still incorrectly

15   classified by the trained neural network, once training of the network has been completed, are identified as outliers and can be removed prior to proceeding.

In some embodiments, an ensemble of neural networks can be used on the training population and individuals ranked on the basis of the number of times an individual is misclassified by each neural network. In order to create the ensemble, each neural network

20   can differ with respect to the initial seeded weighting. In another embodiment, each neural network can differ on the basis of randomly generated noise added to the molecular marker data for one or more molecular markers of each individual of the training population added to the input layer. In such an embodiment, this randomly generated noise can be applied by changing the amount of each of the measured molecular marker data of each member of

25   the training population by a scaled random amount. When larger amounts of noise are required, the magnitude of the scaled random amount is increased. In any of these embodiments, the number of layers and the number of units in each layer can be adjusted in order to provide optimal results for any given set of conditions. In this manner, one can identify outliers which are misclassified in as many as1 0%, 20%, 30%, 40%, 50%, 60%,

30   70%, 80%, 90% or more of the neural networks used.

Step 205.

Step 205 is optional. We have surprisingly found that certain molecular markers whose molecular marker data fails to discriminate individually as between two trait subgroups in step 204, are still more than incrementally useful when utilized in

combinations with other candidate molecular markers selected in step 204. In particular we have been able to identify molecular markers whose data fails to individually discriminate as between two trait subgroups in the pairwise comparison of step 204 but contribute to a classifier identified in step 216 from a combination which includes one or

5   more candidate molecular markers identified in step 204 ("combination friendly molecular markers"). Thus, in order to ensure that molecular markers which may be useful in combinations are not removed prematurely, optional step 205 is performed.

In step 205, all or a portion of the molecular markers for which data has been or can be obtained in at least two of the trait subgroups of the training population are utilized

10   ("putative combination molecular markers"). For purposes of step 205, in one embodiment, the data is obtained using a technique which allows for fast and efficient data generation for all of the molecular markers of the genome of interest chosen. In another embodiment the data is obtained using one or more of the techniques as described in Section 5.3 and/or 5.4. In another embodiment, the data is obtained using microarray

15   technology. In a preferred embodiment, the data used is the data obtained for step 202

In order to identify additional candidate molecular markers, combinations of molecular markers are chosen and a mathematical model applied to the molecular marker data for each molecular marker of the combination resulting in a classifier for each combination. The mathematical model applied can be selected from those defined in

20   Section 5.14. In some embodiments, each possible combination of 2, and/or 3, and/or 4, and/or 5, and/or 6, and/or 7, and/or 8, and/or 9 and/or 10 or more of the putative combination friendly molecular markers are tested. For example, if there are 8,000 putative combination friendly molecular markers, each possible combination of 8 or less molecular markers can be written as follows:

25                           $8.000!/((8,OQO - 8)1(8)!)$

ach classifier resulting from each combination is scored as described more fully in step 220. In some embodiments, the classifiers are scored using the training population so as to permit time and cost savings. In other embodiments, the classifiers are scored using a scoring population. In yet other embodiments, the classifiers are scored using other

30   resampling or cross validation procedures so as to generate multiple scoring populations. Having scored the classifiers, a subset of classifiers are then selected based on the score.

In some embodiments, the subset of classifiers is any number less than the total number of combinations evaluated. In some embodiments, the top 10%, top 20%, top 30%, top 40%, or top 50% of the classifiers generated are chosen. In some embodiments,

wherein scoring is done using ROC area under the curve, those classifiers with an ROC

area under the curve of 0.5, 0.6, 0.7, 0.8, 0.9 or 1.0 are selected.

Having selected a number of classifiers, each representing a combination of

molecular markers, the number of occurrences of each putative combination friendly

5   molecular marker in the combinations of the selected classifiers are determined.   Putative

combination friendly molecular markers can then be selected as combination friendly

molecular markers so as to used as candidate molecular markers based on the number of

reoccurrences of said molecular marker in the selection of combinations evaluated.   In one

embodiment, 5, 10, 15, 20, 30, 50, 100, 150, 200 or more additional candidate molecular

10   markers not previously selected in step 204 are chosen to proceed to step 206.   In other

embodiments, the top 10%, top 20%, top 30%, top 40%, or top 50% of combination

friendly molecular markers as determined by reoccurrence statistics are selected to be

included in the selected set of candidate molecular markers for purposes of choosing

combinations to create classifiers in accordance with steps 214 to 218.

15   *Step 206.*

In step 206, second molecular marker data is obtained for the candidate molecular

markers identified in step 204.   In one embodiment, the second molecular marker data is

measured using any technique described in Section 5.3 or 5.4 or equivalents thereof.   In

another embodiment, the same technique used to measure the first molecular marker data

20   in step 202 is used to obtain the second molecular marker data.   In other embodiments, an

alternative technique is used to measure the second molecular marker data.   In other

embodiments, the first molecular marker data is obtained using one of the following

techniques: microarray, and/or RT-PCR and the second molecular marker data is obtained

using any technique but microarray.   In other embodiments, the first molecular marker data

25   is obtained using microarray and the second molecular marker data is obtained using any

technique except for microarray.   The use of second molecular marker data is preferred

because the changes in differential expression or abundance of the product of the

molecular marker in blood as between trait subgroups can be as low as a 1.1 fold, 1.2 fold,

1.3 fold, 1.4 fold, 1.5 fold etc. which makes less sensitive and reproducible techniques less

30   reliable.   In addition, techniques which are preferable for the data collection to allow large

scale screening in step 202 such as microarray have been shown to have significant

inherent reproducibility issues with high standard deviation as between experiments.   As

such it is necessary to obtain second molecular marker data so as to ensure the accuracy of

the ultimate classifiers identified.

Techniques utilized to obtaining second molecular marker data for the plurality of molecular marker products are those techniques known to measure abundance of RNA and/or protein including the techniques described in Section 5.3 and 5.4.

In some embodiments, it is helpful to obtain a third series of molecular marker data

5   (ie third molecular marker data, fourth molecular marker data etc.) which can be molecular marker data of the training population used in steps 202 or of a different training or scoring population using any known technique including those techniques described in sections 5.3 and 5.4. Preferably more expensive and/or time consuming techniques are used once smaller numbers of candidate molecular markers have been identified

10   In some embodiments, some aspects of step 206 are performed by molecular marker data processing module ıı - 61. The exact nature of the functionality of molecular processing module 6 l will depend on the type of measurement assay used in step 206. However, it is contemplated that module 6 l will be used to record measurement values for molecular marker data in a profile similar to molecular marker data processing module I -

15   50, perform any necessary error correction techniques, normalization techniques *(e.g.,* techniques described in Bevington and Robinson, *Data Reduction and Error Analysis for the Physical Sciences,* Second Edition, WCB/ McGraw-Hill, 1992, *etc.)* and/or perform any measurement techniques that can be coded in a digital computer .

Step 208.

20   Step 208 is optional and allows for the selection of individual candidate molecular markers of step 206 which can be removed prior to the process of selecting and evaluating combinations of molecular markers in steps 214/216. In optional step 208, one or more candidate molecular markers in data structure 58 (Fig. l) are eliminated. In optional step 208, the same types of tests that were performed in step 204 can be performed. The main

25   difference is that in step 208, the quantitative data measured in step 206 using low throughput methods is used whereas in step 204, the high throughput data measured in step 202 is used. Data measured in step 206 is used in step 208 to validate the candidate molecular markers.

In one specific embodiment, training population 44 consists of a first trait subgroup

30   and a second trait subgroup and step 208 comprises performing a t-test or a nonparametric equivalent of the t-test on each candidate molecular marker using the molecular marker data measured in step 206 to verify for each candidate molecular marker that the molecular marker data differentiates between the first trait subgroup and the second trait subgroup with some measure of statistical confidence. Candidate molecular markers whose

molecular marker data are less effective in differentiating between the two trait subgroups (e.g. have a p value that is greater than .05) are removed from data structure 58 and are no longer considered as candidate molecular markers.

In another specific embodiment, training population 44 consists of a first trait subgroup, a second trait subgroup, and a third trait subgroup. In this specific embodiment, ANOVA or a nonparametric equivalent is performed independently on each candidate molecular marker in data structure 58 to verify that each molecular marker differentiates between the three subgroups using the molecular marker data. Candidate molecular markers whose molecular marker data are less effective in differentiating between the three trait subgroups (e.g. have a p value that is greater than .05) are removed from data structure 58 and are no longer considered as candidate molecular markers.

In some embodiments, each molecular marker is validated by using the data for each molecular marker to generate a Receiver Operating Characteristic (ROC) curve.

ROC curves are generally discussed in Park et al., Korean J. Radiol. 5, p. 11, which is hereby incorporated herein by reference in its entirety. In one embodiment of the present invention, an ROC curve is computed for each candidate molecular marker in training population 44 using the molecular marker data measured in step 206. As noted in step 202, training population 44 includes, for each specimen in the training population, an indication 52 as to whether or not the specimen has a particular trait under study.

Each respective ROC curve graphs the True Positive Fraction (TPF) as compared with 1/ the False Positive Fraction (FPF). For example, consider the case in which molecular marker A is being validated and the data for molecular marker A that was measured in step 206 is expression level of the molecular marker A in blood samples from subjects. Table B provides hypothetical values for the abundance of A across training population 44.

Table B: Values for molecular marker data of A across training set 44.

[A]	Presence / Absence of Disease
453	Y
437	Y
424	Y
374	Y
202	N
158	Y
102	N
37	N
0.54	N

In Table B, each line represents a different specimen in the training population. If the relationship between [A] (data of cellular constituent A) and the presence of disease in subjects in the training population is statistically very significant, all positive results (where specimens have the disease) would be at the top of Table B and all negative results (where biological specimens do not have the disease) at the bottom of the Table B.

To plot the ROC curve corresponding to the test illustrated in Table B, the table is divided into a number of cutoff levels. Then, the sensitivity (TPF) and specificity (TNF) of each cutoff level is computed. Sensitivity and specificity are defined with reference to the decision matrix of Table C.

Table C: Decision matrix.

| Test result | True Feature Status | | |
	Positive	Negative	Total
Positive	TP	FP	T+
Negative	FN	TN	T-
Total	D+	D-	

In Table C, TP means the number of true positives, FP means the number of false positives, FN means the number of false negatives, and TN means the number of true negatives.

Sensitivity is the proportion of subject with a trait *(e.g.,* a disease or particular biological phenotype) who test positive for the feature. In probability notation sensitivity is $P(T^+D^+) = TP / (TP+FN)$. Specificity is the proportion of patients without the trait who test negative for the feature. In probability notation specificity is $P(T^-|D^-) = TN / (TN + FP)$.

The ROC curve is defined as a plot of the sensitivity as the y-coordinate versus 1-specificity (false positive rate) as the x-coordinate. Thus, for Table B, where each line of the Table B represents an independent cutoff level, the following ROC data points are derived.

Table D: ROC data points for Table B.

Ratio Cutoff Level	Sensitivity	1-Specificity
No row	0	0
First row	0.2	0
First two rows	0.4	0
First three rows	0.6	0
First four rows	0.8	0

Ratio Cutoff Level	Sensitivity	1-Specificity
First five rows	0.8	025
First six rows	1	0.25
First seven rows	1	0.5
First eight rows	1	0.75
First nine rows	1	1

To compute the last row of Table D, the number of TP, FP, FN, and TN are counted in Table B when the condition is imposed that the classifier predicts that no specimen in Table B is positive for presence of the trait (e.g., disease or a particular

5   biological phenotype). This, of course, is not an accurate classifier as reflected in the respective sensitivity and specificity values of 0 and 1. Plotting sensitivity by 1-specificity yields the coordinate (0,0) as illustrated in the last row of Table D. Figure 7 illustrates the ROC curve based upon the data points illustrated in Table D. As illustrated in Fig. 7, a ROC curve begins at coordinate (0,0) and ends at coordinate (1,1).

10   Once an ROC curve has been computed for a molecular marker, in one embodiment, the area under the ROC curve can be quantified. Generally, an area of 1.0 represents a molecular marker that is a perfect diagnostic indicator of the presence of absence of the trait. Preferably an area of greater than 0.5 is desired for a diagnostic indicator, but it will depend upon the trait of interest. For example measurement of protein

15   PSA levels currently used to diagnose prostate cancer has an ROC of 0.47.

In some embodiments there are as many as fifty candidate molecular markers in data structure 58 at this stage of the inventive method. In some embodiments there are more than fifty candidate molecular markers. In practice, the number of candidate molecular markers that remain can be set to any desired number by raising or lowering the

20   criteria for eliminating molecular markers. For example, smaller p values from ANOVA or t-tests, or larger ROC curve areas can be required if the total number of molecular markers is too large.

Steps 210 and 212.

Step 210 is optional and allows the additional removal of individual candidate

25   molecular markers of step 206 by evaluating how each individual candidate molecular marker performs within a model which evaluates a combination of molecular markers prior to performing the evaluation of combinations in step 214/216.

In optional step 210 all or a portion of the remaining candidate molecular markers in data structure 58 are used to generate a regression classifier. To compute the regression

30   classifier, measured data from step 206 for the molecular markers in two different trait

subgroups in training population 44 are used. In some embodiments, the two different trait

subgroups respectively represent a diseased and nondiseased state. In some embodiments,

the two different trait subgroups respectively represent a first diseased state (e.g. cancer)

and a second unrelated diseased state (e.g., Alzheimer's disease). In some embodiments,

5   the two different trait subgroups represent those subjects that are responsive to drug

therapy and those subjects that are not responsive to drug therapy. In still other

embodiments, the two different trait subgroups from which molecular marker data is

obtained represent data from subjects obtained *apriori* to treatment, but that have been

classified into different trait subgroups on the basis of the ultimate response to treatment.

10   In some embodiments, the two different trait subgroups respectfully represent two

different stages of a disease (e.g., moderate versus advanced).

In some embodiments, data for between ten and thirty candidate molecular markers

in the two select trait subgroups is used in the logistic regression. In some embodiments,

between twenty and one hundred candidate molecular makers in the two select trait

15   subgroups is used in the logistic regression. In still other embodiments, all the candidate

molecular markers in the two select trait subgroups are used in the logistic regression.

In step 210 logistic regression can be used because one of the dependent variables

is binary - absence or presence of a particular phenotype. For example, consider the case

in which molecular marker data from a first trait subgroup and molecular marker data from

20   a second trait subgroup is used in step 210. The first trait subgroup is characterized by a

first disease and the second trait subgroup is characterized by a second disease. In such

instances, what can be considered by logistic regression is absence or presence of the first

disease in subjects. Alternatively, what can be considered by logistic regression is absence

or presence of the second disease in subjects.

25   In general, the multiple regression equation of interest can be written

$$Y = a + \beta_1 X_1 + \beta_2 X_2 + - + \beta_k X_k + \varepsilon$$

where Y, the dependent variable, is presence (when Y is positive) or absence (when Y is

negative) of the trait *(e.g.,* phenotype, condition) associated with the first trait subgroup

considered in step 204. This classifier says that the dependent variable Y depends on k

30   explanatory variables (the measured data values for the k candidate molecular markers

from subjects in the first and second trait subgroups in training population 44), plus an

error term that encompasses various unspecified omitted factors. In the above-identified

classifier, the parameter β_1 gauges the effect of the first explanatory variable X_1 on the

dependent variable Y, holding the other explanatory variables constant. Similarly, β_2 gives the effect of the explanatory variable X_2 on Y, holding the remaining explanatory variables constant.

In general, in the multiple regression procedure, estimates for β_1 are obtained by taking into account how uncontrolled changes in other variables influence Y. Thus, in specific embodiments of the present invention, regression is used to eliminate at least some of the candidate molecular markers rather than relying entirely on the tests described in step 208 because the regression takes into account patterns in which multiple molecular markers influence the dependent variable (absence or presence of a trait) in a concerted fashion.

Because the dependent variable data is binary, logistic regression can be used. The logistic regression classifier is a non-linear transformation of the linear regression. The logistic regression classifier is termed the "logit" classifier and can be expressed as

$$ln[p/(1-p)] = cc + \beta_1 X_1 + \beta_2 X_2 + - + \beta_k X_k + \varepsilon \quad \text{or}$$

$$[p/(1-p)] = \exp^{a} \exp^{\beta_1 X_1} \exp^{\beta_2 X_2} x \cdots x\exp^{\beta_k X_k} \exp^{\varepsilon}$$

where,

In is the natural logarithm, $\log_e$, where e=2.71828...,

p is the probability that the event Y occurs, p(Y=1),

(1-p), the probability that the event Y does not occur, p (Y≠)0,

p/(1-p) is the "odds ratio",

ln[p/(1-p)] is the log odds ratio, or "logit", and

all other components of the classifier are the same as the general regression equation described above. It will be appreciated by those of skill in the art that the term for α and ε can be folded into a single constant. Indeed, in preferred embodiments, a single term is used to represent α and ε. The "logistic" distribution is an S-shaped distribution function. The logit distribution constrains the estimated probabilities (p) to lie between 0 and 1.

In some embodiments of the present invention, the logistic regression classifier is fit by maximum likelihood estimation (MLE). In other words, the coefficients {e.g., a, β_1, β_2, ...) are determined by maximum likelihood. A likelihood is a conditional probability (e.g., P(Y|X), the probability of Y given X). The likelihood function (L) measures the

probability of observing the particular set of dependent variable values $(Y_1, Y_2, ..., Y_n)$ that occur in the sample data set. It is written as the probability of the product of the dependent variables:

$$L = \text{Prob } (Y_1 * Y_2 *** Y_n)$$

5   The higher the likelihood function, the higher the probability of observing the Ys in the sample. MLE involves finding the coefficients $(\alpha, \beta i, \beta_2, ...)$ that makes the log of the likelihood function (LL < 0) as large as possible or -2 times the log of the likelihood function (-2LL) as small as possible, hi MLE, some initial estimates of the parameters α, βi, β_2, ... are made. Then the likelihood of the data given these parameter estimates is

10 computed. The parameter estimates are improved the likelihood of the data is recalculated. This process is repeated until the parameter estimates do not change much (for example, a change of less than .01 or .001 in the probability). Examples of logistic regression and fitting logistic regression classifiers are found in Hastie, *The Elements of Statistical Learning*, Springer, New York, 2001, pp. 95-100, which is hereby incorporated by

15 reference in its entirety.

Step 212.

In specific embodiments, all or a portion of the candidate molecular markers are used and the molecular marker data fit using logistic regression. Then, in a stepwise fashion, some of the molecular markers are eliminated from the classifier using backward

20 stepwise regression. Backward stepwise regression begins with a full or saturated classifier and variables are eliminated from the classifier in an iterative process. The fit of the classifier is tested after the elimination of each variable (molecular marker) to ensure that the classifier still adequately fits the molecular marker data. When no more variables can be eliminated from the classifier or a desired number of molecular markers remain in

25 the classifier, the analysis has been completed. In specific embodiments, the regression applied in step 210 is used to refine the candidate molecular marker list to less than 25, less than 24, less than 23, less than 22, less than 21, or less than 20 molecular markers.

In one embodiment, a logistic regression classifier is computed using all or a portion of the available candidate molecular markers in data structure 58. Then,

30 coefficients are tested for significance for inclusion or elimination from the classifier using a Wald test, a likelihood-ratio test (chi-squared statistic), a Hosmer-Lemshow Goodness of Fit Test, or the like. For example, the likelihood-ratio test uses the ratio of the maximized value of the likelihood function for the full classifier (L_1) over the maximized value of the

likelihood function for the simpler classifier (L_0) in which one or more molecular markers have been removed. The likelihood-ratio test statistic equals:

$$-2\log\left(\frac{L_0}{L_1}\right)$$

This log transformation of the likelihood functions yields a chi-squared statistic.

5   *Step 213.*

Step 213 is optional. We have found that performing optional step 213 provides a significant improvement in identifying classifiers which are particularly useful in diagnosis of a disease or condition of interest. In optional step 213, clinically measurable parameters are identified which are thought to be relevant to the trait of interest for which a classifier is desired. For example, where the trait of interest is prostate cancer, clinically measurable parameters chosen are those that are known or are shown to be relevant to the trait of interest. For example in one embodiment, clinically measurable parameters relevant to prostate cancer can include age of subject, level of prostate specific antigen (PSA); and volume of prostate. In yet another embodiment, where the trait of interest is osteoarthritis, some relevant clinically measurable parameters are age and body mass index (BMI). The selected clinically measurable parameters are then included as part of the "selected set of candidate molecular markers" and are treated as molecular markers for the purpose of selecting combinations and developing classifiers in step 214 through 218 as described below.

In order to treat the clinically measurable parameter as a molecular marker for purposes of step 214 through 218, the clinically measurable parameter must have associated data. In some embodiments, where the clinically measurable parameter is one which has an associated value - for example age, blood glucose level, PSA level, blood pressure, body mass index, etc., the value can be treated as the molecular marker data for purposes of steps 214 through 218. In some embodiments there is no value associated with the clinically measurable parameter, for example where the relevant clinical parameter is determinable but does not provide a value. In those cases, a value can be assigned to represent each aspect of the clinically measurable parameter. For example where the sex of a person is the clinically measurable parameter, a value of 1 can be assigned to represent that the person is male, and a value of 0 can be assigned to represent that the person is female. As yet another example, where the relevant clinically measurable parameter is ethnicity, a different value can be assigned to each ethnicity (e.g.

1 Caucasian, 2 asian, 3ashkanazi jew etc. and said value can be used as the molecular marker data associated with ethnicity for purposes of step 214 through 218.

Step 214.

Steps 214 through 218 provide an approach in which all or a portion of the possible
5   combinations of the selected set of candidate molecular markers resulting from steps 202-213 are chosen. Molecular marker data from each candidate molecular marker in a elected combination is applied to a mathematical model as described more fully in Section 5.14. If there are N selected molecular markers at this stage then, in some embodiments, as many as 2N-1 different combinations can be selected and classifiers can be computed for each of
10   these combinations. For example, consider the case in which three molecular markers are selected after any combination of steps 201 through 212 have been performed and logistic regression is used in step 216. In this case, the following 23-1 mathematical models can be used to form 23-1 corresponding classifiers:

$$\ln[p/(1-p)] = a + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \varepsilon$$

15

$$\ln[p/(1-p)] = \alpha + \beta_1 X_1 + \beta_2 X_2 + \varepsilon,$$

$$\ln[p/(1-p)] = a + \beta_x X_x + \beta_3 X_3 + \varepsilon,$$

$$\ln[p/(1-p)] = \alpha + \beta_2 X_2 + \beta_3 X_3 + \varepsilon,$$

$$\ln[p/(1-p)] = \alpha + \beta_1 X_1 + \varepsilon,$$

$$\ln[p/(1-p)] = tf+/? \quad {}_2 X_2 + \varepsilon, \text{ and}$$

20

$$\ln[p/(1-p)] = a + \beta_3 X_3 + \varepsilon.$$

In these mathematical models, α, β_1, β_2, ..., β_N represent coefficients that are regressed against molecular marker data whereas X_1, X_2, ..., X^N each represent a different RNA or protein (or more generally, a molecular marker) for which molecular marker data is available. In some embodiments any one of elements X_1, X_2, ..., X^N can represent a
25   clinically measurable parameters. In a preferred embodiment for each combination chosen, at least one of the molecular markers of the series OfX$_1$, X_2, ..., X^N does not represent a clinically measurable parameter. In some embodiments, additional interaction

terms are also considered, producing non linear behaviour and resulting in greater than or less than as 2^{N-1} different combinations. In some embodiments, additional interaction terms are also considered, producing non linear behaviour. For instance, in the example above, another mathematical model to which molecular marker data can be applied in order to form a classifier is:

$$\ln[p/(1-p)] = \alpha + \beta_2 X_2 + \beta_3 X_3 + \beta_4 XaX_3 + \varepsilon$$

where the coefficient β_4 represents the interaction between molecular marker X_2 and X_3. In such embodiments, more than $2^{N}-1$ "combinations" and thus more than $2^{N}-1$ classifiers are considered. In addition to the possibility of interaction terms, the present invention encompasses nonlinear variables. Examples of nonlinear variables include variables that are squared, squared rooted, or in fact, taken to any power. For instance, additional examples of mathematical models to which molecular marker data can be applied include:

$$\ln[p/(1-p)] = a + \beta_2 (X_2)^2 + \beta_3 X_3 + \beta_4 X_2 X_3 + \varepsilon$$
$$\ln[p/(1-p)] = \alpha + \beta_2 (X_2)^{1/2} + \beta_3 X_3 + \beta_4 X_2 X_3 + \varepsilon$$

In some embodiments, a logarithmic or exponential function is applied to one or more of the variables. In some embodiments, ratios of molecular marker data can be used as a mathematical model. For example, consider the case in which regression is used to apply molecular marker data to the following equation in order to develop a classifier:

$$ln[p/(1-p)] = a + \beta_1 X_1 + \beta_2 X_2 + \beta_3 X_3 + \varepsilon$$

Above, it was noted that $X_1, X_2, ..., X_N$ each represent the product of a different gene (or more generally, a molecular marker or molecular marker like element) for which molecular marker data is available. However, in the case where ratios are selected for use in mathematical models which are subsequently scored, each $X_1, X_2, ..., X_N$ can in fact represent a ratio of abundance and/or expression levels for two different molecular marker products e.g. RNA or proteins, or any other type of molecular marker. For example, X_1 can represent the ratio between molecular marker data measured in step 206 representative of gene (molecular marker) A and data for gene B in training population 44. Mixed forms of mathematical models are also possible. For example, some variables X can represent ratios between the molecular marker data of two molecular markers whereas other variables X can represent molecular marker data of discrete molecular markers as opposed to ratios of molecular marker data. In one specific embodiment a "ratio" of the RNA products of two molecular markers can be used and all or some of the possible combinations of said "ratios" can be utilized. For example, where the molecular marker

data is a measure of abundance of RNA is determined using quantitative RT-PCR, the measure of the expression level of gene (molecular marker) A and the measure of the expression level of gene B can be used as a single term. In some embodiments this is done by first determining the level of expression of each gene individually as compared with an

5   internal housekeeping control such as β-actin:

e.g. $\Delta Ct = Ctgene\ A - Ct\beta actin$

where Ctgene A is the threshold cycle of amplification of GeneA and Ctβactin is the threshold cycle of amplification of the internal control β-actin. Similarly the level of expression of gene B is also determined in comparison with an internal housekeeping

10 control

e.g. $\Delta Ct = Ctgene\ B\ ''\ Ct\beta actin$

In order to combine the terms into a single term for purposes of creating a classifier using "ratios" of the two terms - the terms are combined as follows to form a single variable (e.g. X).

15      $\Delta Ct = Ctgene\ A - Ct_{gene}\ B$

This is commonly described as the use of ratios given the logarithmic nature of the measure of Ct. Thus in some embodiments, the $X_1, X_2, ..., X_N$ of a classifier, each term represents the "ratio" of two molecular markers. In other embodiments the Ct scores are compared directly rather than compared with an internal control.

20   For example, consider the case in which the desire is to form a classifier that discriminates between a first trait subgroup and a second trait subgroup wherein each term of the classifier represents molecular marker data which is derived from a combination of molecular markers using ratios as outlined above (e.g. $\Delta Ct = Ct_{gene\ A} - Ct_{gene\ B}$)- In such a case, each variable actually represents two molecular markers - the ratio of the molecular

25 marker data for two molecular markers. Therefore in instances, for example, where 10 molecular markers have been identified by the funneling process of steps 202-210, 45 possible combinations of "ratios" of molecular markers can be formed

e.g. $\dfrac{n!}{(n-2)!2!}$

30 where n is the number of possible molecular markers (e.g. 10).

In some embodiments it is particularly useful to select molecular markers where the molecular marker data will work well in the form of a "ratio" thus, as part of step 214, in one embodiment, prior to selecting combinations of molecular markers, molecular markers whose molecular marker data can be combined as ratios are first identified.

The use of molecular marker data as variables in which the variable representing the product of the molecular marker is in the form of ratios or raised to some arbitrary power *(e.g.,* $\alpha, 2, N,$ *etc.)* is not limited to mathematical models based on regression. Such variables can be used in any of the mathematical models described herein *(e.g.,* neural

5   networks). For example, consider the case in which the desire is to form a classifier that discriminates between a first trait subgroup and a second trait subgroup wherein each term of the classifier is a combination of molecular markers evaluated as a ratio. In step 214, in one embodiment, prior to selecting ratios of molecular markers, molecular markers which can be combined as ratios are first identified. Molecular markers which can be combined

10 as ratios are those molecular markers wherein the ratio as between said molecular markers is a value which is not equal 1 1.0 (or in one embodiment wherein $\Delta Ct = Ct_{gene\,A} - Ct_{gene\,B}$ does not equal zero. In one embodiment, a first set of molecular markers and a second set of molecular markers are selected to create ratios such that the first set of molecular marker data demonstrates the molecular marker is upregulated in the first trait subgroup

15 (relative to the second trait subgroup) in training population 44 and a second set of molecular marker data demonstrates that the molecular marker is downregulated in the first trait subgroup in training population 44 (relative to the second trait subgroup). Thus, for example an upregulated gene is one in which $\Delta Ct = Ct_{gene\,B} - Ctp_{actin} > 0$ and a downregulated gene is one in which $\Delta Ct = Ct_{gen}eA - Ctpactin < 0,$

20 Here, the term upregulated or downregulated generally means that such up or down regulation is observed in the training population with some measure of statistical confidence, for example a Mest having *ap* value of 0.05, less than 0.01, less than 0.005, less than 0.001, less than 0.0005, less than 0.0001, less than 0.00005, less than 0.00001, or less. Then, ratios of molecular markers can be formed using one molecular marker from

25 the first set and a second molecular marker from the second set.

In another embodiment, a ratio for use in a selected combination is one in which the numerator represents the molecular marker data that demonstrates the molecular marker is upregulated in a first trait subgroup (as compared with a second trait subgroup) and the denominator represents the molecular marker data that demonstrates the molecular

30 marker is upregulated in a second trait subgroup (as compared with a first trait subgroup). With such a ratio, a value greater than " 1" indicates that the organism from which the molecular marker data was measured is a member of the first trait subgroup whereas a value less than "1" indicates that this organism is a member of the second trait subgroup. Thus, in some embodiments, step 214 comprises obtaining combinations of ratios of

molecular marker data. In some embodiments, step 214 comprises obtaining some multiple of molecular markers and forming a plurality of ratios of the molecular marker data so as to generate a plurality of combinations of molecular markers.

In step 214, a combination of molecular markers is selected. In some
5   embodiments, this combination of molecular markers consists of a single molecular marker. In some embodiments, this combination of molecular markers comprises 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, as many as 30, as many as 40, as many as 50 or more molecular markers. In some embodiments, this combination of molecular markers consists of a combination of ratios of molecular markers wherein the
10   combination comprises 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, as many as 30, as many as 40, as many as 50 or more molecular markers. For each candidate molecular marker added, the number of possible combinations grows exponentially. The limitation to the number of combinations selected for evaluation is dependent upon the capacity of the computer, network of computers or supercomputers utilized. In one
15   embodiment, all possible combinations of molecular markers resulting from steps 202-213 (or resulting from some subset of steps 202-213) are chosen, hi another embodiment, all possible combinations of ratios of molecular markers resulting from steps 202-213 (or resulting from some subset of steps 202-213) are chosen. In another embodiment, one can subject all possible pairs of candidate molecular markers; all possible combinations of
20   three molecular markers, all possible combinations of four molecular markers; all possible combinations of five molecular markers, all possible combinations of six molecular markers, all possible combinations of seven molecular markers etc. In another embodiment, all possible combinations of two sets of ratios are chosen, in another embodiment, all possible combinations of three sets of ratios are chosen, in another
25   embodiment, all possible combinations of four sets of ratios are chosen, in another embodiment, all possible combinations of five sets of ratios are chosen. Each of the combinations of molecular markers is evaluated in subsequent processing steps.

Step 216.

In step 216, a classifier is computed using each combination of molecular markers
30   chosen in the last instance of step 214 and by applying the classifier to the molecular marker data measured for each molecular marker of this combination of molecular markers to a mathematical model, such as the mathematical models defined in Section 5.14 resulting in one or more classifiers for each combination. As described more thoroughly in Step 204, in some embodiments, one or more subjects of the training population are

identified as outliers and are removed prior to computing classifiers for each combination of molecular markers chosen.

In order to compute a classifier, in some embodiments, the mathematical model is a regression model, a neural network, a clustering model, principal component analysis,

5   nearest neighbor classifier analysis, linear discriminant analysis, quadratic discriminant analysis, a support vector machine, a decision tree, a genetic algorithm, classifier optimization using bagging, classifier optimization using boosting, classifier optimization using the Random Subspace Method, Bayesian Networks (see F. V. Jensen. "Bayesian Networks and Decision Graphs". Springer. 2001, which is incorporated herein by reference

10   in its entirety), a projection pursuit, weighted voting, a ratio or combination of ratios, or any combination of the above. Representative mathematical models that can be used in the present invention are described in Section 5.14. In the case where the mathematical model is a ratio or combination of ratios, steps 214 and 216 involve using the low throughput molecular marker data from training population 44 that was measured in step 206 to

15   determine which molecular markers should be in the numerator of the ratios and which molecular markers should be in the denominator of the ratios. In some embodiments, the mathematical model used comprises a plurality of ratios of the molecular marker data. In such embodiments, the molecular marker data used in the numerators of the plurality of ratios can be the same or different than the molecular marker data used in the

20   denominators of the plurality of ratios. In other words, a given molecular marker can be represented in the numerator of more than one ratio in the plurality of ratios or represented in the denominator of more than one ratio in the plurality of ratios.

Step 218.

In optional step 218 a determination is made as to whether all of the possible

25   desired combinations of molecular markers to be tested have been considered. As discussed above in step 214, all or a portion of possible combinations may be tested. If not (218-No) process control returns to step 214 where another combination of molecular markers is selected and, at step 216, this new combination of molecular markers is evaluated using a mathematical model applied to the molecular marker data of the new

30   combination. In some embodiments, the candidate molecular marker list comprises less than 25, less than 24, less than 23, less than 22, less than 21, or less than 20 molecular markers at step 214. In some embodiments, step 218 requires that a classifier be computed for all possible combinations of molecular markers. In other embodiments, step 218

requires that classifiers for only a portion of the possible combinations of molecular markers be considered.

In some embodiments, some aspects of steps 214-218 are performed by molecular marker classifier evaluation module 62. In fact, in some embodiments, several
5   different software programs, such as Microsoft (Redmond, Washington) Excel, are used in steps 214-218.

Step 220.

Once all the desired classifiers have been computed by loop 214-218, the classifiers are evaluated to determine which of the classifiers are most effective. In one embodiment
10   the resulting classifiers of loop 214-218 are scored. In some embodiments, scoring is done using the training population 44. In other embodiments, scoring is done using a "scoring population" wherein the scoring population includes at least some members not present in the training population. In one embodiment, the scoring population includes members of the training population in addition to one or more members not used in the training
15   population. In some embodiments, five percent or less, ten percent or less, twenty percent or less, thirty percent or less, fifty percent or less, or ninety percent or less of the members of the training population are common to the scoring population.

In some embodiments, the Percent Correct Predictions statistic is used to score each classifier. The "Percent Correct Predictions" statistic assumes that if the estimated p
20   is greater than or equal to 0.5, then the event is expected to occur and to not occur otherwise. By assigning these probabilities zeros and ones, a comparison can be made to the values of the samples in the training population to determine what percentage of the training population was sampled correctly.

In some embodiments, ROC analysis is performed and is used to score the
25   classifiers. In one embodiment, the area under the ROC curve is used to judge the quality of the classifier. As would be understood by those of skill in the relevant arts, area under the curve converts the two dimensional information contained in the ROC curve into one dimensional information. In other embodiments, information from the two dimensional aspect of the ROC curve is utilized directly. For example, the ROC curve also provides
30   information with respect to the sensitivity and specificity of the classifier. In some embodiments, classifiers are selected on the basis of either sensitivity or specificity. This can be an important scoring indicator. For example, a diagnostic classifier with high sensitivity (ie high true positive rate and low false negative rate may be important in situations where it is safer to misdiagnosis an individual as having disease rather than

misdiagnosing a disease bearing person as normal. Therefore in some embodiments, a cutoff can be set for either sensitivity or specificity and the classifier ranked or scored on the basis of the remaining variable. In some embodiments, ROC curves are generated for each model computed in an instance of step 216 using data obtained in step 206 for

5   members of either the training population or scoring population or both.

In some embodiments, the classifier resulting from the application of the mathematical itself results in a score as to the accuracy of the model. In this embodiment, the score is based on the accuracy of the model within the training population only.

In some embodiments, a classifier is a weighted logistic regression model

10   characterized by a multicategory logit model. For example, in some embodiments, a classifier discriminates between two different trait groups. In other embodiments, a classifier discriminates between more than two different trait groups. Logit models, including multicategory logit models are described in Agresti, *An Introduction to Categorical Data Analysis*, John Wiley & Sons, Inc., 1996, New York, Chapters 7 and 8,

15   which is hereby incorporated by reference. Table E illustrates the data that is used to form an ROC curve based on expression data applied to a mathematical model that uses the logit:

$$\ln[p/(1\text{-}p)] = \alpha + \beta_1{}^{JS}r_1 + \beta_2 X_2 + \varepsilon$$

Table E: Values for the logit $\ln[p/(1\text{-}p)]$ $= a + \beta_1 X_1 + \beta_2 X_2 + \varepsilon$ using hypothetical

20   values for training population 44

$\ln[p/(1\text{-}p)]$	Presence / Absence of a Trait
0.98	Y
0.97	Y
0.95	Y
0.93	Y
0.91	N
0.11	Y
0.07	N
0.03	N

Each row in Table E corresponds to a different specimen in the scoring population. The left column represents the results of the logit for the classifier being sampled. The

25   specimens in Table E are ranked by the logit score listed in the left hand column. The

right hand column details the presence or absence of the trait that is being considered by the regression equation. Table E can be used to compute a ROC curve using the same techniques disclosed in step 208 (in which each row in Table E is considered a threshold cutoff value in order to compute ROC curve datapoints). Then, the area under the ROC

5   curve can be computed in order to assess the predictive quality of the classifier.

In step 220, each classifier is scored using any of the techniques disclosed here or that are known in the art. The classifiers can then be ranked based on their score. For example, they can be ranked based on the percent correct predictions, area under the ROC curve, sensitivity or specificity or some weighted or unweighted combination of the two

10   scoring techniques. In some embodiments, step 220 is performed by molecular marker evaluation module 64.

Step 222.

Step 222 is optional. Optional step 222 provides additional filtering to eliminate some of the candidate classifiers computed in loop 214-218. In one such filter, limited to

15   the case in which the classifiers computed in steps 214-218 are based on application of data to regression based mathematical models, classifiers that have at least one coefficient that is large are eliminated. Such classifiers have the potential to magnify small errors in the data. In some embodiments, determination as to whether or not a coefficient is large can require multiple computation steps, hi instances where a coefficient uniquely

20   represents a molecular marker, the maximum value (MAX) for the data measured for the molecular marker in a trait subgroup associated with the classifier is identified. For example, consider the case in which a given coefficient uniquely represents the expression of gene A in blood. Further suppose that low throughput data for gene A from 10 individuals of a particular trait subgroup was measured in step 206. The value MAX

25   would be the largest expression value observed for gene A in the ten individuals from the subject trait subgroup. For example, if individual #7 in the set often individuals exhibited the highest expression level for gene A as determined by the methods of step 206, then the expression value measured for gene A in individual #7 will represent MAX. Next, the minimum value (MIN) for the data measured for the molecular marker in the subject trait

30   subgroup is identified. In the example presented above, MIN is the expression level of gene A in the subject having the lowest expression level for gene A in the set often subjects as determined by the low throughput measurement methods of step 206. Next, the coefficient derived in the regression for the unique molecular marker *(e.g.,* the coefficient for gene A) is multiplied by the difference between (MAX) and (MIN) in order to obtain

the test value (TEST). In other words, for each coefficient i in a classifier, the following equation is computed:

$$TEST_i = coefficient_i * [MAX - MIN].$$

As an example, consider the case in which a classifier is used to determine whether

5   or not a subject has a particular cancer. In this case, one of the trait subgroups in training population 44 will represent patients that have this cancer. To evaluate a coefficient of a classifier in this case, the low value and high value for the measured data of the molecular marker i in the trait subgroup is obtained and the difference between these two values is multiplied against the coefficient value in order to obtain the value of TEST,. In some

10   embodiments, a coefficient i is considered large and the classifier that includes the coefficient is discarded when the value is greater than 5, greater than 10, greater than 100 or greater than 1000.

In typical embodiments, a classifier will determine whether a subject falls into one of at least two different trait subgroups. In other words, the classifier will discriminate

15   between at least two different trait subgroups. A test has been presented above for determining whether a coefficient in a regression derived classifier is too large. This test used one of the trait subgroups that the classifier discriminates. In some embodiments, the test is repeated for each of the trait subgroups that the classifier can discriminate. For example, in the case of a classifier that can discriminate between the cancerous trait

20   subgroup and the non-cancerous trait subgroup, the test is independently run using data from each trait subgroup. That is, the test is first run using only data from the cancerous trait subgroup and then the test is run a second time using only data from the non‐cancerous trait subgroup. If a coefficient is too large in any such independent test, the classifier is eliminated from further consideration. In some embodiments, the test is run

25   against only one of the possible trait subgroups that the subject classifer can discriminate.

In another embodiment, some classifiers are eliminated on the basis of the score. For example, where the scoring system used is receiver operating characteristic (ROC) curve score determined by an area under the ROC curve, in some embodiments, those classifiers with scores of less than 0.95, 0.9, 0.85, 0.8, 0.7, 0.65, 0.6, 0.55 0.5 or 0.45 or

30   less can be eliminated. In other embodiments, where specificity is important to the use of the classifier, a sensitivity threshold can be set and classifiers ranked on the basis of the specif city. for example with a cutoff for specificity of less than 0.95, 0.9, 0.85, 0.8, 0.7, 0.65, 0.6, 0.55 0.5 or 0.45 or less can be eliminated. Similarly, the specificity threshold can be set and classifiers ranked on the basis of sensitivity for example with a cutoff for

sensitivity of less than 0.95, 0.9, 0.85, 0.8, 0.7, 0.65, 0.6, 0.55 0.5 or 0.45 or less can be eliminated. Thus in some embodiments, only the top 10 ranking classifiers, the top 20 ranking classifiers, or the top 100 ranking classifiers are selected and the remaining classifiers eliminated.

5   *Step 224.*

After classifiers have been scored and ranked and some classifiers optionally eliminated; one or more classifiers can be combined to create a classifier group. For instance, in some embodiments, the top 10 ranking classifiers, the top 20 ranking classifiers, or the top 100 ranking classifiers are selected. In some embodiments, any of

10   the top 1 to top 500 ranking classifiers is selected, hi instances where more than one classifier is selected, in one embodiment, each classifier contributes one vote to the diagnosis of the test subject such that diagnosis of the test subject is determined as a result of a combination of classifiers. In other embodiments, multiple classifiers can be used and different weighting schema applied to each classifier. For example, weighting schema can

15   include weighting on the basis of factors such as the original score the classifier, the logs odd ratio ("logit"), the size of the coefficients for each classifier, some combination thereof and the like.

Step 226.

Step 226 is optional. Optional step 226 is useful if training population 44 is

20   comprised of more than two trait subgroups. In cases where there are more than two trait subgroups, multiple binary classifiers (or groups of said classifiers) can be developed wherein each binary classifier (or group of said classifiers) is directed towards differentiating as between two traits. In one embodiment, each round of the funnel (e.g. steps 202, 204, 206, 214, 216, 220 and 224) produces a set of binary classifiers. In another

25   embodiment, multiple lists of binary candidate molecular markers are developed by performing step 202, and then binary classifiers (or groups of binary classifiers) are developed by proceeding with multiple rounds of the remainder of the funnel (e.g. steps 204, 206, 214, 216, 220 and step 224). Because each classifier represents only a binary test e.g. the absence or presence of a single trait, in step 226 a determination is made as to

30   whether all classifiers have been developed for training population 44. If not (226-No), process control returns to step 210 and work is initiated to develop a classifier for a different trait represented by training population 44. Therefore, steps 210-224 can optionally be repeated until one or more classifiers or groups of classifiers have been selected for each of the trait subgroups represented by training population 44.

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In some embodiments, each classifier or group of classifiers developed in accordance with embodiments of the present invention is stored in classifier database 70. Fig. 5 illustrates an exemplary classifier database 70 in accordance with one embodiment of the present invention. Database 70 includes an entry 400 for each classifier 400. Each

5 classifier 400 is optionally given a classifier name 402. Each classifier 400 is part of classifier. For example, a given classifier can consist of only a single classifier. In other embodiments, a given classifier can consist of one or a plurality of classifiers. Therefore, each classifier 402 includes an indicator 403 to indicate which classifier the classifier is in. Further, each classifier 400 has an optional indicator 404 to indicate the trait that the

10 classifier can discriminate. In some embodiments, optional indicator indicates the trait subgroups that the classifier can discriminate. In some embodiments such information can be inferred from the classifier identifier field 403 since each classifier represents the absence or presence of a particular trait (e.g., absence or presence of cancer). In addition to this header information, each classifier includes the identity 406 of one or more

15 molecular markers and the respective coefficients 408 for each of the molecular markers.

Once classifiers or classifier groups have been developed, the classifiers can be used to diagnose a patient that has presented as possibly having a disease that can be differentiated by the classifiers. Figure 3 is a flowchart of a method of applying the classifiers to a patient.

20 *Step 328.*

Step 328 can be performed after the previously described steps, or can be used in conjunction with a classifier or classifier groups derived using the methods disclosed herein. As such, steps 328-334 represent a completely independent method of the present invention and can be performed at any time once suitable classifiers have been developed

25 using, for example, steps 301 through 326. Step 328 is used in conjunction with step 330 to diagnose a trait of interest of an individual not represented in either the training population or the scoring population (a "test individual"). Each classifier or classifier group identified previously can be used to determine whether a test individual has a trait of interest. In order to perform such tests, molecular marker data for each molecular marker

30 of the classifier or classifier group of interest is required. To obtain such data, a sample of blood from the subject is obtained using any of the techniques described in Section 5.2. The sample is used to measure molecular marker data for each molecular marker in the sample using any of the techniques described in Sections 5.3 or 5.4. Thus in step 328, once classifiers have been identified, molecular marker data for use with the classifier or

classifier groups can be obtained using either high throughput or low throughput techniques.

Advantageously, the molecular marker data obtained in step 328 can be stored in patient database 68 for later use. In fact, in some embodiments, rather than obtaining

5   molecular marker data from a patient sample in step 328, the data is obtained from a subject in patient database 68. In such embodiments, the molecular marker data was previously loaded into patient database 68.

Fig. 6 illustrates a patient database 68 in accordance with one embodiment of the present invention. There is a record 500 for each patient (subject) tracked by patient

10 database 68. Each patient record 500 optionally includes a patient identifier 502 to uniquely identify the patient. In some embodiments such unique identifiers can be inferred from the patient record value 500. Each patient record 500 includes a molecular profile 504 comprising molecular marker data collected for a plurality of molecular marker products from a sample defined in Section 5.2 using any one of the techniques described in

15 Sections 5.3 and 5.4. In typical embodiments, a molecular profile 504 includes a plurality of molecular marker identities 506 and the corresponding measured molecular marker data values 508 for such molecular markers. In addition to the molecular profile, each patient record 502 can include one or more traits 510. Such trait characterizations can be assigned by observation of the subject and/or by testing the patient's molecular profile using the

20 classifiers constructed in accordance with the methods of the present invention. Section 5.10, below, provides more details on exemplary patient databases 68.

Step 330.

In step 330 the classifier created using some or more of the previous steps is used to diagnose a test individual. In some embodiments diagnosis can be performed using a

25 classifier group from step 224. For example, in one embodiment, where there are numerous classifiers after step 222 that provide satisfactory scores (given the purpose for use), a test subject can be diagnosed by using the results of all or some of these classifiers in the form of a classifier group as described in step 224. In one embodiment, the term diagnosis means the results of a single classifier or group of classifiers resulting from the

30 application of the funneling method described in steps 202-224. For example, the resulting classifier or group of classifiers will enable the ability to determine whether a test individual belongs to one of two possible trait subgroups. In another embodiment, by the term diagnosis is meant the results of multiple classifiers or multiple groups of classifiers (ie classifiers resulting from the application of more than one round of the funneling

method described in steps 202 —224). For example, the resulting classifiers or groups of classifiers used in series can allow a diagnosis as to whether an individual belongs to one of three or more possible trait subgroups (e.g. results of first classifier distinguish as to whether person has schizophrenia or does not have schizophrenia - If not schizophrenia

5   apply a second classifier or group of classifiers to determine whether individual has bipolar disorder or does not have bipolar disorder etc.) The use of the classifiers to diagnose depends upon the trait subgroups used to develop the classifier. For example, if the classifier was developed to differentiate as between two trait subgroups, the classifier can be used to diagnose a test subject as being either of the first trait subgroup or the second

10   trait subgroup.   To diagnose a test subject, preferably a quantitative technique such as quantitative RT-PCR is utilized to obtain molecular marker data measured in step 328 is used.

To illustrate the use of a classifier to diagnose, consider the case in which the classifier comprises the classifier group:

15

$$\ln[p/(1\text{-}p)] \quad =0.34 \ +0.24 JT_1 +0.74 X_3 +0.03 \ ,$$

$$\ln[p/(1\text{-}p)] =0.54\text{-} \quad OAST_2 +83 X_3 +0.01 \ .$$

That is, the exemplary classifier group consisting of two classifiers. To poll the classifier, the data (e.g. abundance level, activity level, etc.) for molecular markers X_1, X_2 and X_3 is measured using any of the techniques described in Section 5.3 or 5.4. Then,

20   these data measurement values are placed into the classifier equations and the equations are processed and the output is used to predict outcome In one embodiment, classifier equation values that approach a value of one indicate that the sample has the trait associated with the classifier whereas classifier equation values that approach zero indicate that the sample does not have the trait associated with the classifier. In other

25   embodiments, the equations are regressed so that the opposite relationship hold (e.g., equation values approach one indicate absence of an associated trait). In one embodiment, each equation is assigned a "+1" vote if the equation approaches one or a "-1" vote if the equation approaches zero. Equation votes are summed. If the net summation is positive, then the subject is deemed to have the trait associated with the classifier. If the net

30   summation is negative, then the subject is deemed not to have the trait associated with the classifier. In some embodiments, step 330 is performed by model polling and reporting module 66.

Step 332.

One of the advantages of the present invention is that a single sample collected in accordance with Section 5.2 can be used to test the patient for one or more of a plurality of molecular markers which may be useful for one or more traits. Accordingly, in step 332, a determination is made as to whether the patient has been tested for each pair of traits for which a determination is required. If additional determinations are required (332-No), process control is returned to step 330 and the measured molecular marker data from the patient is used to help determine the likelihood as to whether a subject has other traits represented by a trait subgroup in training population 44.

Step 334.

When the patient sample has been used to determine if the subject has any of a plurality of different traits as determined by one or more classifiers or classifier groups, a report is generated. In some embodiments, this report includes the results of each classification test. In other words, the report provides an indication as to whether it is likely the tested subject has any one of a plurality of different traits. In some embodiments, step 334 is performed by classifier polling and reporting module 66. Section 5.5 provides a summary of some of the applications for classifiers constructed using the methods of the present invention.

5.2   SOURCE OF MOLECULAR MARKER DATA

The present invention provides methods for identifying molecular markers by obtaining molecular marker data which represents the products of molecular markers found in a blood sample. Molecular markers are thus identified that correlate with, are associated with, or indicate a trait. The present invention also provides methods for detecting, diagnosing, monitoring, prognosing or predicting a trait or reoccurrence of a trait based upon data corresponding to the expression of molecular markers in a blood sample. As used herein, the terms "subject" and "patient" and "individual" are used interchangeably to refer to an animal (e.g., a mammal, a fish, an amphibian, a reptile, a bird, and an insect). In a specific embodiment, a subject is a mammal (e.g., a non-human mammal and a human). In another embodiment, a subject is a pet (e.g., a dog, a cat, a guinea pig, a monkey and a bird), a farm animal (e.g., a horse, a cow, a pig, a goat and a chicken) or a laboratory animal (e.g., a mouse and rat). In another embodiment, the subject is a primate (e.g., a chimpanzee and a human). In a preferred embodiment, the subject is a human.

5.2.1   SOURCE   OF A BLOOD   SAMPLE

A blood sample obtained from any subject may be used in accordance with the methods of the invention. Examples of subjects from which a blood sample can be obtained and utilized in accordance with the methods of the invention include, but are not

5   limited to, asymptomatic subjects, subjects manifesting or exhibiting 1, 2, 3, 4 or more traits or symptoms of a trait, subjects clinically diagnosed as having a trait, subjects predisposed to a trait *(e.g.,* subjects with a family history of a trait, subjects with a genetic predisposition to a trait, and subjects that lead a lifestyle that predisposes them to a trait or increases the likelihood of contracting a trait), subjects suspected of having a trait, subjects

10   undergoing therapy for a trait, subjects non-responsive to a therapy, subjects responsive to a therapy, subjects with more than one trait *(e.g.,* subjects with 2, 3, 4, 5 or more traits), subjects not undergoing therapy for a trait, subjects determined by a medical practitioner *(e.g.,* a physician) to be healthy or disease-free, subjects that are in remission, subjects cured of trait, and subjects that have not been diagnosed with a condition. In specific

15   embodiment, the condition is a disease. In another specific embodiment, a condition is any state that is codified in the *International Classification of Diseases,* 9th Revision, Department of Health and Human Services (ICD-9 codes) and/or SNOMED Clinical Terms (SNOMED CT®) which is hereby incorporated by reference, or equivalent treatise.

Non-limiting examples of disease include, but are not limited to, blood disorder,

20   blood lipid disease, autoimmune disease, arthritis *(e.g.,* osteoarthritis, rheumatoid arthritis, juvenile rheumatoid arthritis and the like), bone or joint disorder, lupus, an allergy, a cardiovascular disorder *(e.g.,* heart failure, congenital heart disease, rheumatic fever, valvular heart disease, corpulmonale, cardiomyopathy, myocarditis, pericardial disease, vascular diseases such as atherosclerosis, acute myocardial infarction, ischemic heart

25   disease and the like), obesity, respiratory disease *(e.g.,* asthma, pneumonitis, pneumonia, pulmonary infections, lung disease, bronchiectasis, tuberculosis, cystic fibrosis, interstitial lung disease, chronic bronchitis emphysema, pulmonary hypertension, pulmonary thromboembolism, acute respiratory distress syndrome and the like), hyperlipidemias, endocrine disorder, immune disorder, infectious disease, muscle wasting and whole body

30   wasting disorder, neurological disorder (e.g., migraines, seizures, epilepsy, cerebrovascular disease, Parkinson's, ataxic disorders, motor neuron diseases, cranial nerve disorders, spinal cord disorders, meningitis and the like), neurodegenerative disease (e.g., alzheimers, dementia and the like), neuropsychiatric disease (e.g., schizophrenia, anxiety and the like), mood disorders (e.g., bipolar disorder; manic depression and the like), skin disorder,

kidney disease, scleroderma, stroke, hereditary hemorrhage telangiectasia, diabetes, disorders associated with diabetes (e.g., PVD), hypertension, Gaucher's disease, cystic fibrosis, sickle cell anemia, liver disease, stomach disease, pancreatic disease, eye disease, ear disease, nose disease, throat disease, diseases affecting the reproductive organs,

5   gastrointestinal diseases (including diseases of the colon, diseases of the spleen, appendix, gall bladder, and others) and the like. For further discussion of human diseases, see Mendelian Inheritance in Man: A Catalog of Human Genes and Genetic Disorders by Victor A. McKusick (12th Edition, 3 volume set, June 1998, Johns Hopkins University Press, ISBN: 0801857422) and Harrison's Principles of Internal Medicine by Braunwald,

10   Fauci, Kasper, Hauser, Longo, & Jameson (15th Edition 2001), the entirety of each of which is incorporated herein. Additional examples of disease are disclosed in Section 5.8, below.

In one embodiment of the invention, the disease is an immune disorder, such as those associated with overexpression of a gene or expression of a mutant gene

15   (e.g., autoimmune diseases, such as diabetes mellitus, arthritis (including rheumatoid arthritis, juvenile rheumatoid arthritis, osteoarthritis, and psoriatic arthritis), multiple sclerosis, encephalomyelitis, myasthenia gravis, systemic lupus erythematosis, automimmune thyroiditis, dermatitis (including atopic dermatitis and eczematous dermatitis), psoriasis, Sjogren's Syndrome, Crohn's disease, aphthous ulcer, iritis,

20   conjunctivitis, keratoconjunctivitis, ulcerative colitis, asthma, allergic asthma, cutaneous lupus erythematosus, scleroderma, vaginitis, proctitis, drug eruptions, leprosy reversal reactions, erythema nodosum leprosum, autoimmune uveitis, allergic encephalomyelitis, acute necrotizing hemorrhagic encephalopathy, idiopathic bilateral progressive sensorineural hearing, loss, aplastic anemia, pure red cell anemia, idiopathic

25   thrombocytopenia, polychondritis, Wegener's granulomatosis, chronic active hepatitis, Stevens-Johnson syndrome, idiopathic sprue, lichen planus, Graves' disease, sarcoidosis, primary biliary cirrhosis, uveitis posterior, and interstitial lung fibrosis), graft-versus-host disease, cases of transplantation, and allergy.

In another embodiment, a disease of the invention is a cellular proliferative and/or

30   differentiative disorder that includes, but is not limited to, cancer, e.g., carcinoma, sarcoma or other metastatic disorders and the like. As used herein, the term "cancer" refers to cells having the capacity for autonomous growth, i.e., an abnormal state of condition characterized by rapidly proliferating cell growth. "Cancer" is meant to include all types of cancerous growths, pre-cancerous growths or lesions, oncogenic processes, metastatic

tissues or malignantly transformed cells, tissues, or organs, irrespective of histopathologic type or stage of invasiveness. Examples of cancers include, but are not limited to, solid tumors, tissue specific tumors, benign cancer, metastatic cancers, early stage cancer, late stage cancer and leukemias, including: apudoma, choristoma, branchioma, malignant

5 carcinoid syndrome, carcinoid heart disease, carcinoma (e.g., Walker, basal cell, basosquamous, Brown-Pearce, ductal, Ehrlich tumour, in situ, Krebs 2, Merkel cell, mucinous, non-small cell lung, oat cell, papillary, scirrhous, bronchiolar, bronchogenic, squamous cell, and transitional cell), histiocytic disorders, leukaemia (e.g., B cell, mixed cell, null cell, T cell, T-cell chronic, HTLV-II-associated, lymphocytic acute, lymphocytic

10 chronic, mast cell, and myeloid), histiocytosis malignant, Hodgkin disease, immunoproliferative small, non-Hodgkin lymphoma, plasmacytoma, reticuloendotheliosis, melanoma, chondroblastoma, chondroma, chondrosarcoma, fibroma, fibrosarcoma, giant cell tumors, histiocytoma, lipoma, liposarcoma, mesothelioma, myxoma, myxosarcoma, osteoma, osteosarcoma, Ewing sarcoma, synovioma, adenofibroma, adenolymphoma,

15 carcinosarcoma, chordoma, craniopharyngioma, dysgerminoma, hamartoma, mesenchymoma, mesonephroma, myosarcoma, ameloblastoma, cementoma, odontoma, teratoma, thymoma, trophoblastic tumour, adeno-carcinoma, adenoma, cholangioma, cholesteatoma, cylindroma, cystadenocarcinoma, cystadenoma, granulosa cell tumour, gynandroblastoma, hepatoma, hidradenoma, islet cell tumour, Leydig cell tumour,

20 papilloma, Sertoli cell tumour, theca cell tumour, leiomyoma, leiomyosarcoma, myoblastoma, mymoma, myosarcoma, rhabdomyoma, rhabdomyosarcoma, ependymoma, ganglioneuroma, glioma, medulloblastoma, meningioma, neurilemmoma, neuroblastoma, neuroepithelioma, neurofibroma, neuroma, paraganglioma, paraganglioma nonchromaffin, angiokeratoma, angiolymphoid hyperplasia with eosinophilia, angioma sclerosing,

25 angiomatosis, glomangioma, hemangioendothelioma, hemangioma, hemangiopericytoma, hemangiosarcoma, lymphangioma, lymphangiomyoma, lymphangiosarcoma, pinealoma, carcinosarcoma, chondrosarcoma, cystosarcoma, phyllodes, fibrosarcoma, hemangiosarcoma, leimyosarcoma, leukosarcoma, liposarcoma, lymphangiosarcoma, myosarcoma, myxosarcoma, ovarian carcinoma, rhabdomyosarcoma, sarcoma (e.g.,

30 Ewing, experimental, Kaposi, and mast cell), neoplasms (e.g., bone, breast, digestive system, colorectal, liver, pancreatic, pituitary, testicular, orbital, head and neck, central nervous system, acoustic, pelvic respiratory tract, and urogenital), neurofibromatosis, and cervical dysplasia, and other conditions in which cells have become immortalized or transformed.

5.2.2 METHODS FOR COLLECTING BLOOD

In one aspect, a sample of blood is obtained from a subject according to methods well known in the art. The present invention can use whole blood, but can also use blood in which the serum or plasma has been removed and the RNA or mRNA isolated from the remaining sample in accordance with methods known in the art (for example, using preferably gentle centrifugation at 300-800xg for five to ten minutes).

In some embodiments a drop of blood is collected from a simple pin prick made in the skin of a subject. In such embodiments, this drop of blood collected from a pin prick is all that is needed. A drop of blood can include volumes of anywhere from 10ul through to 100ul. Blood may be drawn from a subject from any part of the body *(e.g.,* a finger, a hand, a wrist, an arm, a leg, a foot, an ankle, a stomach, and a neck) using techniques known to one of skill in the art, in particular methods of phlebotomy known in the art. In a specific embodiment, venous blood is obtained from a subject and utilized in accordance with the methods of the invention. In another embodiment, arterial blood is obtained and utilized in accordance with the methods of the invention. The composition of venous blood varies according to the metabolic needs of the area of the body it is servicing. In contrast, the composition of arterial blood is consistent throughout the body. For routine blood tests, venous blood is generally used.

Venous blood can be obtained from any source including the basilic vein, cephalic vein, or median vein. Arterial blood can be obtained from the radial artery, brachial artery or femoral artery. A vacuum tube, a syringe or a butterfly may be used to draw the blood. Typically, the puncture site is cleaned, a tourniquet is applied approximately 3-4 inches above the puncture site, a needle is inserted at about a 15-45 degree angle, and if using a vacuum tube, the tube is pushed into the needle holder as soon as the needle penetrates the wall of the vein. When finished collecting the blood, the needle is removed and pressure is maintained on the puncture site. Usually, heparin or another type of anticoagulant is in the tube or vial that the blood is collected in so that the blood does not clot. When collecting arterial blood, anesthetics can be administered prior to collection.

The amount of blood collected will vary depending upon the site of collection, the amount required for a method of the invention, and the comfort of the subject. However, an advantage of one embodiment of the present invention is that the amount of blood required to implement the methods of the present invention can be so small that more invasive procedures are not required to obtain the sample. For example, in some embodiments, all that is required is a drop of blood. This drop of blood can be obtained,

83

for example, from a simple pinprick. In some embodiments, any amount of blood is collected that is sufficient to measure molecular marker data. As such, in some embodiments, the amount of blood that is collected is 1 µl or less, 0.5 µl or less, 0.1 µl or less, or 0.01 µl or less. However, the present invention is not limited to such

5   embodiments. In some embodiments more blood is available and in some embodiments, more blood can be used to effect the methods of the present invention. As such, a broad range of blood volumes is contemplated and can be used to obtain the molecular marker data measurement data used in the present invention. In various specific embodiments, 0.001 ml, 0.005 ml, 0.01 ml, 0.05 ml, 0.1 ml, 0.15 ml, 0.2 ml, 0.25 ml, 0.5 ml, 0.75 ml, 1

10   ml, 1.5 ml, 2 ml, 3 ml, 4 ml, 5 ml, 10 ml, 15 ml or more of blood is collected from a subject. In other specific embodiments, 0.001 ml to 15ml, 0.01 ml to 10 ml, 0.1 ml to 10 ml, 0.1 ml to 5 ml, 1 to 5 ml of blood is collected from a subject.

In some embodiments of the present invention, blood is stored within a K3/EDTA tube. In another embodiment, one can utilize tubes for storing blood which contain

15   stabilizing agents such as disclosed in United States patent No. 6,617,170. In another embodiment, the PAXgene™ blood RNA system provided by PreAnalytiX, a Qiagen/BD company, can be used to collect blood. In yet another embodiment, the Tempus™ blood RNA collection tubes, offered by Applied Biosystems, can be used. Tempus™ collection tubes provide a closed evacuated plastic tube containing RNA stabilizing reagent for

20   whole blood collection.

The collected blood is optionally but preferably stored at refrigerated temperatures, such as 4 °C, prior to molecular marker data measurement. In some embodiments, a portion of the blood sample is used for molecular measurement at a first instance of time whereas one or more remaining portions of the blood sample is stored for a period of time

25   for later use. This period of time can be an hour or more, a day or more, a week or more, a month or more, a year or more, or indefinitely. For long term storage, storage methods well known in the art, such as storage at cryo temperatures (e.g. below -60 °C) can be used. hi some embodiments, in addition to storage of the blood (or instead of storage oft he blood), isolated molecular markers (e.g., nucleic acid, protein, carbohydrates, lipids,

30   metabolites, etc.) are stored for a period of time for later use. Storage of such molecular markers can be for an hour or more, a day or more, a week or more, a month or more, a year or more, or indefinitely.

5.2.3   METHOD OF ISOLATING BLOOD CELLS

In some embodiments of the present invention, whole blood is used directly to isolate and analyze the products of one or more molecular markers so as to obtain molecular marker data.   In other embodiments of the invention fractionated blood can be used. By fractionated blood is meant blood in which the blood cells are separated prior to isolation of the molecular markers using techniques known in the art. For example, fractionated blood includes blood wherein the blood cells are fractionated using Ficoll-Hypaque (Pharmacia) gradient centrifugation. Such centrifugation separates erythrocytes (red blood cells) from various types of nucleated cells and from plasma. As such, in some embodiments of the present invention, a blood sample of the invention is fractionated blood. In one embodiment, peripheral blood leukocytes are utilized ("PBLs"). PBLs are separated from the remainder of the blood using a Ficoll® gradient.

By way of example but not limitation, macrophages can be obtained as follows. Mononuclear cells are isolated from peripheral blood of a subject, by syringe removal of blood followed by Ficoll-Hypaque gradient centrifugation. Tissue culture dishes are pre-coated with the subject's own serum or with AB+ human serum and incubated at 37°C for one hour. Non-adherent cells are removed by pipetting. Cold (4°C) ImM EDTA in phosphate-buffered saline is added to the adherent cells left in the dish and the dishes are left at room temperature for fifteen minutes. The cells are harvested, washed with RPMI buffer and suspended in RPMI buffer. Increased numbers of macrophages can be obtained by incubating at 37°C with macrophage-colony stimulating factor (M-CSF). Antibodies against macrophage specific surface markers, such as Mac-1_5 can be labeled by conjugation of an affinity compound to such molecules to facilitate detection and separation of macrophages. Affinity compounds that can be used include but are not limited to biotin, photobiotin, fluorescein isothiocyante (FITC), or phycoerythrin (PE), or other compounds known in the art. Cells retaining labeled antibodies are then separated from cells that do not bind such antibodies by techniques known in the art such as, but not limited to, various cell sorting methods, affinity chromatography, and panning.

Blood cells can be fractionated using a fluorescence activated cell sorter (FACS). Fluorescence activated cell sorting (FACS) is a known method for separating particles, ncluding cells, based on the fluorescent properties of the particles. See, for example, Kamarch, 1987, Methods Enzymol 151:150 165. Laser excitation of fluorescent moieties in the individual particles results in a small electrical charge allowing electromagnetic separation of positive and negative particles from a mixture. An antibody

or ligand used to detect a blood cell antigenic determinant present on the cell surface of particular blood cells is labeled with a fluorochrome, such as FITC or phycoerythrin. The cells are incubated with the fluorescently labeled antibody or ligand for a time period sufficient to allow the labeled antibody or ligand to bind to cells. The cells are processed

5   through the cell sorter, allowing separation of the cells of interest from other cells. FACS sorted particles can be directly deposited into individual wells of microtiter plates to facilitate separation.

Magnetic beads can be also used to separate blood cells in some embodiments of the present invention. For example, blood cells can be sorted using a magnetic activated

10   cell sorting (MACS) technique, a method for separating particles based on their ability to bind magnetic beads (0.5 100 Dm diameter). A variety of useful modifications can be performed on the magnetic microspheres, including covalent addition of an antibody which specifically recognizes a cell solid phase surface molecule or hapten. A magnetic field is then applied, to physically manipulate the selected beads. In a specific

15   embodiment, antibodies to a blood cell surface marker are coupled to magnetic beads. The beads are then mixed with the blood cell culture to allow binding. Cells are then passed through a magnetic field to separate out cells having the blood cell surface markers of interest. These cells can then be isolated.

In some embodiments, the surface of a culture dish may be coated with antibodies,

20   and used to separate blood cells by a method called panning. Separate dishes can be coated with antibody specific to particular blood cells. Cells can be added first to a dish coated with blood cell specific antibodies of interest. After thorough rinsing, the cells left bound to the dish will be cells that express the blood cell markers of interest. Examples of cell surface antigenic determinants or markers include, but are not limited to, CD2 for T

25   lymphocytes and natural killer cells, CD3 for T lymphocytes, CD1 1a for leukocytes, CD28 for T lymphocytes, CD 19 for B lymphocytes, CD20 for B lymphocytes, CD21 for B lymphocytes, CD22 for B lymphocytes, CD23 for B lymphocytes, CD29 for leukocytes, CD14 for monocytes, CD41 for platelets, CD61 for platelets, CD66 for granulocytes, CD67 for granulocytes and CD68 for monocytes and macrophages.

30   Whole blood can also be fractioned into cells types such as leukocytes, platelets, erythrocytes, etc. Leukocytes can be further separated into granulocytes and agranulocytes using standard techniques. Granulocytes can be separated into cell types such as neutrophils, eosinophils, and basophils using standard techniques. Agranulocytes can be separated into lymphocytes (e.g., T lymphocytes and B lymphocytes) and monocytes using

standard techniques. T lymphocytes can be separated from B lymphocytes and helper T cells separated from cytotoxic T cells using standard techniques. Separated blood cells (e.g., leukocytes) can be frozen by standard techniques prior to use in the present methods.

5.2.4   BLOOD SAMPLES USED IN METHODS OF THE INVENTION

5   In accordance with the methods of the invention, the term "blood sample" can include any of the samples discussed in section 5.2.3. In some embodiments, this includes whole blood, fractionated blood, a sample of subsets of fractionated blood, and a sample of specific types of blood cells. In a specific embodiment, the whole blood sample can have the plasma or serum removed by centrifugation, using preferably gentle

10   centrifugation at 300-800xg for five to ten minutes.

In another embodiment, a blood sample of the invention is a sample of peripheral blood leukocytes (PBLs). In another embodiment, a blood sample of the invention is a sample of granulocytes. In another embodiment, a blood sample of the invention is a sample of neutrophils, eosinophils, basophils or any combination thereof. In another

15   embodiment, a blood sample of the invention is a sample of agranulocytes. In another embodiment, a blood sample of the invention is a sample of lymphocytes, monocytes or a combination thereof. In yet another embodiment, a blood sample of the invention is a sample of T lymphocytes, B lymphocytes or a combination thereof. See, e.g., Section 5.4.3 supra for methods of isolating blood cells.

20   A blood sample that is useful according to the invention is in an amount that is sufficient for the detection of one or more molecular markers according to the invention. In a specific embodiment, a blood sample useful according to the invention is in an amount ranging from 1 μl to 100 ml, preferably 10 μl to 50 ml, more preferably 10 μl to 25 ml and most preferably 10 μl to 1 ml.

25   In one embodiment whole blood, or serum free whole blood is taken and the redblood cells are lysed with lysing buffer. In a specific embodiment, the Lysis Buffer (IL) consists of 0.6g EDTA 1.0g $KHCO_2$, and 8.2g NH_4Cl adjusted to pH 7.4 (using NaOH). Once mixed with lysing buffer, the sample is centrifuged and the cell pellet retained and RNA or mRNA extracted in accordance with methods known in the art

30   ("lysed whole blood") (see, for example, Sambrook, Fritsch & Maniatis, "Molecular Cloning: A Laboratory Manual (1982); "DNA Cloning: A Practical Approach," Volumes I and II (D.N. Glover ed. 1985). The use of whole blood or lysed whole blood is preferred since it avoids the costly and time-consuming need to separate out the cell types within the blood (Liew et al. U.S. Patent Application No.US 2004/0014059). In another

embodiment, whole blood is stored and stabilized using PAXgene® tubes and RNA can be isolated using the PAXgene® RNA Isolation system. In yet another embodiment, RNA is isolated from whole blood which has been isolated using PAXgene® and additional globin reduction protocols followed.

5   ## 5.3   METHODS FOR MEASURING MOLECULAR MARKER DATA

The techniques described in this section are particularly useful for obtaining molecular marker data for step 202 wherein the data is reflective of the products of the molecular marker -e.g. measurement of the abundance of RNA or protein products in blood corresponding to all of the molecular markers of the genome or "a portion thereof.

10   In particular, the techniques useful for step 202 are those techniques which allow the ability to comprehensively screen for candidate molecular markers quickly and effectively. These techniques preferably provide molecular marker data for a large number of molecular markers concurrently, thereby allowing greater ability to screen molecular markers corresponding to the entire genome, or a portion thereof in a short period of time.

15   In addition to the techniques described in this Section 5.3, any technique known to one of skill in the art to measure the abundance of RNA or protein corresponding to the entire genome or "a portion thereof can be used to measure such data. In one embodiment,"a portion thereof is data corresponding to the amount of RNA or protein expressed from more than 1,000, more than 2,000, more than 5,000, more than 10,000, more than 20,000,

20   more than 30,000 molecular markers. In another embodiment, the "a portion thereof refers to at least 50%, at least 55%, at least 60%, at least 65%, at least 70%, at least 75%, at least 80%, at least 85%, at least 90%, or at leat 95% of the genome. See, *e.g.*, Sambrook, Fritsch & Maniatis, 1982, *Molecular Cloning: A Laboratory Manual; DNA Cloning: A Practical Approach,* volumes I and II (D.N. Glover ed. 1985); *Oligonucleotide*

25   *Synthesis* Gait *ed.,* 1984; *Nucleic Acid Hybridization,* Hames & Higgins *eds.,* 1985; *Transcription and Translation,* Hames & Higgins *eds.,* 1984, *Animal Cell Culture,* Freshney *ed.,* 1986, *Immobilized Cells And Enzymes,* IRL Press, 1986, Perbal, 1984, *A Practical Guide To Molecular Cloning,* each of which is hereby incorporated by reference in its entirety. In one embodiment more than technique can be used to measure data for

30   each molecular marker to perform step 202.

5.3.1   RNA MEASUREMENT TECHNIQUES

Any technique known to one of skill in the art may be used to measure the level of expression of a molecular marker by measuring the amount of the product of the molecular

marker. In one embodiment the RNA in blood corresponding to the molecular marker is measured. By "corresponding to a molecular marker" is meant RNA transcribed from a molecular marker (or proteins translated from RNA which is transcribed from a molecular marker when referring to protein products of a molecular marker). RNA or protein which

5   corresponds to a molecular marker are also considered the product of the molecular marker. In a specific embodiment, the level of an RNA product is measured using a echnique which permits generation of data for a large number of molecular markers. However measured, the result is either the absolute or relative amounts of abundance of nucleic acids corresponding to the molecular markers, including but not limited to values

10   representing abundances or abundance ratios.

5.3.1.1 MICROARRAYS

n one embodiment, nucleic acid arrays are employed for analyzing the level of RNA product of each molecular marker of the genome in a blood sample. In a specific embodiment, molecular marker data is obtained by hybridizing detectably labeled

15   polynucleotides representing the nucleic acid sequences in mRNA transcripts present in a cell (e.g., fluorescently labeled cDNA synthesized from total cell mRNA) to a microarray. In some embodiments expressed transcripts that may or may not represent genes expressed in the blood sample are analyzed.

In some embodiments, a microarray is an array of positionally-addressable binding

20   (e.g., hybridization) sites on a support for representing many of the nucleic acid sequences in the genome of a cell or organism. Is some embodiments, a microarray represents most or almost all of the genes in a species. In some embodiments, each microarray binding site consists of polynucleotide probes bound to a predetermined region on the support. Microarrays are described in Draghici, *Data Analysis Tools For DNA Microarrays*, 2003,

25   Chapman & Hall, CRC Press, New York, pp. 15-16, which is hereby incorporated by reference in its entirety.

Microarrays can be made in a number of ways. See, for example, Draghici, *Data Analysis Tools For DNA Microarrays*, 2003, Chapman & Hall, CRC Press, New York, pp. 16-22, which is hereby incorporated by reference in its entirety. Preferably microarrays are

30   reproducible, allowing multiple copies of a given array to be produced and results from the microarrays compared with each other. Preferably, the microarrays are made from materials that are stable under binding (e.g., nucleic acid hybridization) conditions. Microarrays are preferably small, e.g., between 1 cm² and 25 cm², preferably 1 to 3 cm². However, both larger and smaller arrays are also contemplated and may be preferable, e.g.,

for simultaneously evaluating a very large number or very small number of different probes.

In some embodiments, a given binding site or unique set of binding sites in the microarray will specifically bind *(e.g.,* hybridize) to a nucleotide sequence in a single gene from a cell or organism *(e.g.,* to exon of a specific mRNA or a specific cDNA derived therefrom).

Microarrays used in the present invention can include one or more test probes. In some embodiments each such test probe comprises a polynucleotide sequence that is complementary to a subsequence of RNA or DNA to be detected. Each probe typically has a different nucleic acid sequence, and the position of each probe on the solid surface of the array is usually known or can be determined. Microarrays useful in accordance with the invention can include oligonucleotide microarrays, cDNA based arrays, SNP arrays, spliced variant arrays and any other array able to provide a quantitative or semi quantitative data of the invention. Some types of microarrays are addressable arrays. More specifically, some microarrays are positionally addressable arrays. In some embodiments, each probe of the array is located at a known, predetermined position on the solid support so that the identity (e.g., the sequence) of each probe can be determined from its position on the array (e.g., on the support or surface). In some embodiments, the arrays are ordered arrays.

In some embodiments, the density of probes on a microarray or a set of microarrays is 100 different *(e.g.,* non-identical) probes per 1 cm^2 or higher. More preferably, a microarray used in the methods of the invention will have at least 550 probes per 1 cm^2, at least 1,000 probes per 1 cm^2, at least 1,500 probes per 1 cm^2 or at least 2,000 probes per 1 cm^2. In a particularly preferred embodiment, the microarray is a high density array, preferably having a density of at least 2,500 different probes per 1 cm^2. The microarrays used in the invention therefore preferably contain at least 2,500, at least 5,000, at least 10,000, at least 15,000, at least 20,000, at least 25,000, at least 50,000 or at least 55,000 different *(i.e.,* non-identical) probes.

In one embodiment, the microarray is an array (e.g., a matrix) in which each position represents a discrete binding site for a nucleotide sequence of a transcript encoded by a gene (e.g., for an exon of an mRNA or a cDNA derived therefrom). The collection of binding sites on a microarray contains sets of binding sites for a plurality of genes and thus can be used, in some embodiments to measure molecular marker data. For example, in various embodiments, the microarrays of the invention can comprise binding sites for

products encoded by fewer than 50% of the genes in the genome of an organism. Alternatively, the microarrays of the invention can have binding sites for the products encoded by at least 50%, at least 75%, at least 85%, at least 90%, at least 95%, at least 99% or 100% of the molecular markersof an organism. In other embodiments, the

5   microarrays of the invention can having binding sites for products encoded by fewer than 50%, by at least 50%, by at least 75%, by at least 85%, by at least 90%, by at least 95%, by at least 99% or by 100% of the genes expressed by a cell of an organism. The binding site can be a DNA or DNA analog to which a particular RNA can specifically hybridize. The DNA or DNA analog can be, e.g., a synthetic oligomer or a gene fragment, e.g.

10   corresponding to an exon.

         In some embodiments of the present invention, an expressed transcript is represented in the nucleic acid arrays. In such embodiments, a set of binding sites can include probes with different polynucleotides that are complementary to different sequence segments of the expressed transcript. Exemplary polynucleotides that fall within this class

15   can be of length of 15 to 200 bases, 20 to 100 bases, 40-60 bases or some other range of bases. Each probe sequence can also comprise linker sequences in addition to the sequence that is complementary to its target sequence. As used herein, a linker sequence is a sequence between the sequence that is complementary to its target sequence and the surface of support. For example, in some embodiments, the nucleic acid arrays of the

20   invention comprise one probe specific to each target gene or exon. However, if desired, the nucleic acid arrays can contain at least 2, 5, 10, 100, or 1000 or more probes specific to some expressed transcript. For example, the array may contain probes tiled across the sequence of the longest mRNA isoform of a gene at single base steps.

         In specific embodiments of the invention, when an exon has alternative spliced

25   variants, a set of polynucleotide probes of successive overlapping sequences, i.e., tiled sequences, across the genomic region containing the longest variant of an exon can be included in the exon nucleic acid arrays. The set of polynucleotide probes can comprise successive overlapping sequences at steps of a predetermined base intervals, e.g. at steps of 1, 5, or 10 base intervals, span, or are tiled across, the mRNA containing the longest

30   variant. Such sets of probes therefore can be used to scan the genomic region containing all variants of an exon to determine the expressed variant or variants of the exon to determine the expressed variant or variants of the exon. Alternatively or additionally, a set of polynucleotide probes comprising exon specific probes and/or variant junction probes can be included in the exon profiling array. As used herein, a variant junction probe refers

to a probe specific to the junction region of the particular exon variant and the neighboring exon. In some cases, the probe set contains variant junction probes specifically hybridizable to each of all different splice junction sequences of the exon. In other cases, the probe set contains exon specific probes specifically hybridizable to the common

5   sequences in all different variants of the exon, and/or variant junction probes specifically hybridizable to the different splice junction sequences of the exon.

In some cases, an exon is represented in the exon nucleic acid arrays by a probe comprising a polynucleotide that is complementary to the full length exon. In such instances, an exon is represented by a single binding site on the profiling arrays. In some

10   preferred cases, an exon is represented by one or more binding sites on the profiling arrays, each of the binding sites comprising a probe with a polynucleotide sequence that is complementary to an RNA fragment that is a substantial portion of the target exon. The lengths of such probes are normally between 15-600 bases, preferably between 20-200 bases, more preferably between 30-100 bases, and most preferably between 40-80 bases.

15   The average length of an exon is 200 bases (see, e.g., Lewin, Genes V, Oxford University Press, Oxford, 1994). A probe of length of 40-80 allows more specific binding of the exon than a probe of shorter length, thereby increasing the specificity of the probe to the target exon. For certain genes, one or more targeted exons may have sequence lengths less than 40-80 bases. In such cases, if probes with sequences longer than the target exons are to be

20   used, it may be desirable to design probes comprising sequences that include the entire target exon flanked by sequences from the adjacent constitutively splice exon or exons such that the probe sequences are complementary to the corresponding sequence segments in the mRNAs. Using flanking sequence from adjacent constitutively spliced exon or exons rather than the genomic flanking sequences, i.e., intron sequences, permits

25   comparable hybridization stringency with other probes of the same length. Preferably the flanking sequence used are from the adjacent constitutively spliced exon or exons that are not involved in any alternative pathways. More preferably the flanking sequences used do not comprise a significant portion of the sequence of the adjacent exon or exons so that cross-hybridization can be minimized. In some embodiments, when a target exon that is

30   shorter than the desired probe length is involved in alternative splicing, probes comprising flanking sequences in different alternatively spliced mRNAs are designed so that expression level of the exon expressed in different alternatively spliced mRNAs can be measured.

In some instances, when alternative splicing pathways and/or exon duplication in separate genes are to be distinguished, the DNA array or set of arrays can also comprise probes that are complementary to sequences spanning the junction regions of two adjacent exons. Preferably, such probes comprise sequences from the two exons which are not

5   substantially overlapped with probes for each individual exons so that cross hybridization can be minimized. Probes that comprise sequences from more than one exons are useful in distinguishing alternative splicing pathways and/or expression of duplicated exons in separate genes if the exons occurs in one or more alternative spliced mRNAs and/or one or more separated genes that contain the duplicated exons but not in other alternatively

10   spliced mRNAs and/or other genes that contain the duplicated exons. Alternatively, for duplicate exons in separate genes, if the exons from different genes show substantial difference in sequence homology, it is preferable to include probes that are different so that the exons from different genes can be distinguished.

It will be apparent to one skilled in the art that any of the probe schemes, supra, can

15   be combined on the same nucleic acid array and/or on different arrays within the same set of nucleic acid arrays so that a more accurate determination of the expression profile for a plurality of molecular marker products can be accomplished. It will also be apparent to one skilled in the art that the different probe schemes can also be used for different levels of accuracies in profiling. For example, a nucleic acid array or array set comprising a

20   small set of probes for each expressed transcript or each region thereof may be used to identify molecular markers under certain specific conditions. An array or array set comprising larger sets of probes for the exons that are of interest is then used to more accurately determine the specific molecular marker products under such specific conditions. Other DNA array strategies that allow more advantageous use of different

25   probe schemes are also encompassed.

In some embodiments, the microarrays used in the invention can include binding sites (e.g., probes) for sets of exons for one or more genes relevant to the condition of interest. The number of genes in a genome can be estimated from the number of mRNAs expressed by the cell or organism, or by extrapolation of a well characterized portion of

30   the genome. When the genome of the organism of interest has been sequenced, the number of ORFs can be determined and mRNA coding regions identified by analysis of the DNA sequence. For example, the human genome is now known. Genome sequences for other organisms are also completed or nearly completed. Thus, in some embodiments of the invention, an array set comprising the total probes for all known or predicted exons

in the genome of an organism is provided. As a non-limiting example, the present invention provides an array set comprising one or two probes for each known or predicted exon of a molecular marker of the human genome.

It will be appreciated that when cDNA complementary to the RNA of a cell is made and hybridized to a microarray under suitable hybridization conditions, the level of hybridization to the site in the array corresponding to an exon of any particular molecular marker will reflect the prevalence in the cell of mRNA or mRNAs containing the exon transcribed from that molecular marker. For example, when detectably labeled *(e.g.,* with a fluorophore) cDNA complementary to the total cellular mRNA is hybridized to a microarray, the site on the array corresponding to an exon of a gene *(i.e.*, capable of specifically binding the product or products of the gene expressing) that is not transcribed or is removed during RNA splicing in the cell will have little or no signal *(e.g.,* fluorescent signal), and an exon of a gene for which the encoded mRNA expressing the exon is prevalent will have a relatively strong signal. The relative abundance of different mRNAs produced from the same gene by alternative splicing is then determined by the signal strength pattern across the whole set of exons monitored for the gene.

The use of a two-color fluorescence labeling and detection scheme to define alterations in gene expression has been described in connection with detection of mRNAs, *e.g.,* in Shena *et al,* 1995, Science 270:467-470, which is incorporated by reference in its entirety for all purposes. In some embodiments, such schemes are used to measure molecular marker data. Such schemes are equally applicable to labeling and detection of expressed transcripts. An advantage of using cDNA labeled with two different fluorophores is that a direct and internally controlled comparison of the mRNA or exon expression levels corresponding to each arrayed gene in two blood samples can be made, and variations due to minor differences in experimental conditions *(e.g.,* hybridization conditions) will not affect subsequent analyses. However, it will be recognized that it is also possible to use cDNA from a single cell, and compare, for example, the absolute amount of a particular exon in, *e.g., a.* drug-treated or pathway-perturbed cell and an untreated cell. Furthermore, labeling with more than two colors is also contemplated in the present invention. In some embodiments of the invention, at least 5, 10, 20, or 100 dyes of different colors can be used for labeling. Such labeling permits simultaneous hybridizing of the distinguishably labeled cDNA populations to the same array, and thus measuring, and optionally comparing the expression levels of, mRNA molecules derived from more than two samples. Dyes that can be used include, but are not limited to,

fluorescein and its derivatives, rhodamine and its derivatives, texas red, 5'carboxy-
fluorescein ("FMA"), 2',7'-dimethoxy-4',5'-dichloro-6-carboxy-fluorescein ("JOE"),
N,N,N',N'-tetramethyl-6-carboxy-rhodamine ("TAMRA"), 6'carboxy-X-rhodamine
("ROX"), HEX, TET, IRD40, and IRD41, cyamine dyes, including but are not limited to

5   Cy3, Cy3.5 and Cy5; BODIPY dyes including but are not limited to BODIPY-FL,
BODIPY-TR, BODIPY-TMR, BODIPY-630/650, and BODIPY-650/670; and ALEXA
dyes, including but are not limited to ALEXA-488, ALEXA-532, ALEXA-546, ALEXA-
568, and ALEXA-594; as well as other fluorescent dyes which will be known to those
who are skilled in the art.

10   In one embodiment, hybridization levels at different hybridization times are
measured separately on different, identical microarrays. For each such measurement, at
hybridization time when hybridization level is measured, the microarray is washed briefly,
preferably in room temperature in an aqueous solution of high to moderate salt
concentration (e.g., 0.5 to 3 M salt concentration) under conditions which retain all bound

15   or hybridized polynucleotides while removing all unbound polynucleotides. The
detectable label on the remaining, hybridized polynucleotide molecules on each probe is
then measured by a method which is appropriate to the particular labeling method used.
The resulted hybridization levels are then combined to form a hybridization curve. In
another embodiment, hybridization levels are measured in real time using a single

20   microarray. In this embodiment, the microarray is allowed to hybridize to the sample
without interruption and the microarray is interrogated at each hybridization time in a non-
invasive manner. In still another embodiment, one can use one array, hybridize for a short
time, wash and measure the hybridization level, put back to the same sample, hybridize for
another period of time, wash and measure again to get the hybridization time curve.

25   In a specific embodiment, the Affymetrix® Human Genome U133 (HG-Ul 33) Set,
consisting of two GeneChip® arrays, is used in accordance with known methods. The
Human Genome U133 (HG-U133) Set contains almost 45,000 probe sets representing
more than 39,000 transcripts derived from approximately 33,000 well-substantiated human
genes. This set design uses sequences selected from GenBank®, dbEST, and RefSeq. The

30   sequence clusters were created from the UniGene database (Build 133, April 20, 2001).
They were then refined by analysis and comparison with a number of other publicly
available databases including the Washington University EST trace repository and the
University of California, Santa Cruz Golden Path human genome database (April 2001
release).

In another embodiment, the HG-U1 33A array is used in accordance with the methods of the invention. The HG-U133A array includes representation of the RefSeq database sequences and probe sets related to sequences previously represented on the Human Genome U95Av2 array. The HG-U1 33B array contains primarily probe sets

5   representing EST clusters. In another embodiment, the U133 Plus 2.0 GeneChip® is used in the invention. The U133 Plus 2.0 GeneChip® represents over 47,000 transcripts.

In another embodiment, a cDNA based microarray is used. In one embodiment the ChondroChip™ is used in accordance with the methods of the invention. The ChondroChip™ is a cDNA based microarray. One version of the ChondroChip™ includes

10   14,976 distinct elements: 10,382 known genes (69%), 4,1 12 EST/genomic DNA matches (28%), 328 clones with no significant match (2.2%), and 154 control spots (1.0%). Most if not all of the elements on the ChondroChip™ are complementary to ESTs identified as expressed in human chondrocytes. An article that describes the creation of a version of the ChondroChip™ is Zhang et ah, 2002, Osteoarthritis and Cartilage 10, 950-960, which is

15   hereby incorporated by reference in its entirety.

In another embodiment, the BloodChip™ is used in accordance with the methods of the invention. The BloodChip is a cDNA microarray slide with 10,368 PCR products derived from peripheral blood cell cDNA libraries. The creation of the BloodChip™ microarray is described in Ma and Liew, 2003, Journal of Molecular and Cellular

20   Cardiology 8, 993-998, which is hereby incorporated by reference in its entirety.

5.3.1.2 TARGET POLYNUCLEOTIDE MOLECULES

Target polynucleotides that can be analyzed by the methods and compositions of the invention include RNA molecules such as, but by no means limited to, expressed RNA molecules which includes messenger RNA (mRNA) molecules, mRNA spliced variants as

25   well as other regulatory RNA, cRNA molecules (e.g., RNA molecules prepared from cDNA molecules that are transcribed in vivo) and fragments thereof. Target polynucleotides which may also be analyzed by the methods and compositions of the present invention include, but are not limited to DNA molecules such as genomic DNA molecules, cDNA molecules, and fragments thereof including oligonucleotides, ESTs,

30   STSs, etc

The target polynucleotide molecules may be naturally occurring nucleic acid molecules such as genomic or extragenomic DNA molecules isolated from a blood sample, or RNA molecules, such as mRNA molecules, isolated from a blood sample. The sample of target polynucleotides can comprise, e.g., molecules of DNA, RNA, or copolymers of

DNA and RNA. In specific embodiments, the target polynucleotides of the invention will correspond to particular genes or to particular gene transcripts (e.g., to particular mRNA sequences expressed in specific cell types or to particular cDNA sequences derived from such mRNA sequences). The target polynucleotides may correspond to different exons of

5   the same gene, e.g., so that different splice variants of that gene may be detected and/or analyzed.

In specific embodiments, the target polynucleotides to be analyzed are prepared in vitro from nucleic acids extracted from a blood sample. For example, in one embodiment, RNA is extracted from a blood sample (e.g., total cellular RNA, poly(A)+ messenger

10   RNA, fraction thereof) and messenger RNA is purified from the total extracted RNA. Methods for preparing total and poly(A)+ RNA are well known in the art, and are described generally, e.g., in Sambrook, Fritsch & Maniatis, "Molecular Cloning: A Laboratory Manual (1982); "DNA Cloning: A Practical Approach," Volumes I and II (D.N. Glover ed. 1985). In one embodiment, RNA is extracted from a blood sample using

15   guanidinium thiocyanate lysis followed by CsCl centrifugation and an oligo dT purification (Chirgwin et al., 1979, Biochemistry 18:5294-5299). In another embodiment, RNA is extracted from a blood sample using guanidinium thiocyanate lysis followed by purification on RNeasy columns (Qiagen). cDNA is then synthesized from the purified mRNA using, e.g., oligo-dT or random primers. In specific embodiments, the target

20   polynucleotides are cRNA prepared from purified messenger RNA extracted from a blood sample. As used herein, cRNA is defined here as RNA complementary to the source RNA. The extracted RNAs can be amplified using a process in which doubled-stranded cDNAs are synthesized from the RNAs using a primer linked to an RNA polymerase promoter in a direction capable of directing transcription of anti-sense RNA. Anti-sense

25   RNAs or cRNAs are then transcribed from the second strand of the double-stranded cDNAs using an RNA polymerase (see, e.g., U.S. Patent Nos. 5,891,636, 5,716,785; 5,545,522 and 6,132,997; see also, U.S. Patent No. 6,271,002, and U.S. Provisional Patent Application Serial No. 60/253,641, filed on November 28, 2000, by Ziman et al.). Both oligo-dT primers (U.S. Patent Nos. 5,545,522 and 6,132,997) or random primers (U.S.

30   Provisional Patent Application Serial No. 60/253,641, filed on November 28, 2000, by Ziman et al.) that contain an RNA polymerase promoter or complement thereof can be used. In some embodiments the target polynucleotides are short and/or fragmented polynucleotide molecules which are representative of the original nucleic acid population of the blood sample.

The target polynucleotides to be analyzed by the methods and compositions of the invention can be detectably labeled. For example, cDNA can be labeled directly, *e.g.*, with nucleotide analogs, or indirectly, *e.g.*, by making a second, labeled cDNA strand using the first strand as a template. Alternatively, the double-stranded cDNA can be transcribed into cRNA and labeled.

In some embodiments the detectable label is a fluorescent label, *e.g.*, by incorporation of nucleotide analogs. Other labels suitable for use in the present invention include, but are not limited to, biotin, imminobiotin, antigens, cofactors, dinitrophenol, lipoic acid, olefinic compounds, detectable polypeptides, electron rich molecules, enzymes capable of generating a detectable signal by action upon a substrate, and radioactive isotopes. Suitable radioactive isotopes include ^{32}P, ^{35}S, ^{14}C, ^{15}N and ^{125}I. Fluorescent molecules suitable for the present invention include, but are not limited to, fluorescein and its derivatives, rhodamine and its derivatives, texas red, 5'carboxy-fluorescein ("FMA"), 2',7'-dimethoxy-4',5'-dichloro-6-carboxy-fluorescein ("JOE"), N,N,N',N'- tetramethyl-6-carboxy-rhodamine ("TAMRA"), 6'carboxy-X-rhodamine ("ROX"), HEX, TET, IRD40, and IRD41. Fluroescent molecules that are suitable for the invention further include: cyamine dyes, including by not limited to Cy3, Cy3.5 and Cy5; BODIPY dyes including but not limited to BODIPY-FL, BODIPY-TR, BODIPY-TMR, BODIPY-630/650, and BODIPY-650/670; and ALEXA dyes, including but not limited to ALEXA-488, ALEXA-532, ALEXA-546, ALEXA-568, and ALEXA-594; as well as other fluorescent dyes which will be known to those who are skilled in the art. Electron rich indicator molecules suitable for the present invention include, but are not limited to, ferritin, hemocyanin, and colloidal gold. Alternatively, in less some embodiments the target polynucleotides may be labeled by specifically complexing a first group to the polynucleotide. A second group, covalently linked to an indicator molecules and which has an affinity for the first group, can be used to indirectly detect the target polynucleotide. In such an embodiment, compounds suitable for use as a first group include, but are not limited to, biotin and iminobiotin. Compounds suitable for use as a second group include, but are not limited to, avidin and streptavidin.

In a specific embodiment, the target polynucleotides are prepared as follows: 2μg Oligo-dT primers are annealed to 2μg of mRNA isolated from a blood sample of a patient in a total volume of 15μl, by heating to 70°C for 10 min, and cooled on ice. The mRNA is reverse transcribed by incubating the sample at 42°C for 1.5-2 hours in a 100 μl volume containing a final concentration of 50mM Tris-HCl (pH 8.3), 75mM KCl, 3mM $MgCl_2$,

25mM DTT, 25mM unlabeled dNTPs, 400 units of Superscript II (200U/µL, Gibco BRL), and 15mM of Cy3 or Cy5 (Amersham). RNA is then degraded by addition of 15µl of 0.1N NaOH, and incubation at 70DC for 10 min. The reaction mixture is neutralized by addition of 15µl of 0.1N HCl, and the volume is brought to 500µl with TE (10mM Tris,

5   1mM EDTA), and 20 Dg of Cot1 human DNA (Gibco-BRL) is added.

The labeled target polynucleotide molecules are purified by centrifugation in a Centricon-30 micro-concentrator (Amicon). If two different target polynucleotide samples (e.g., two samples derived from a healthy patient vs. patient with a disease) are being analyzed and compared by hybridization to the same array, each target nucleic acid sample

10   is labeled with a different fluorescent label (e.g., Cy3 and Cy5) and separately concentrated. The separately concentrated target nucleic acid samples (Cy3 and Cy5 labeled) are combined into a fresh centricon, washed with 500µl TE, and concentrated again to a volume of less than 7µl. 1µL of 1Qµg/µl polyA RNA (Sigma, #P9403) and 1µl of 1Qµg/µl tRNA (Gibco-BRL, #15401-01 1) is added and the volume is adjusted to 9.5µl

15   with distilled water. For final target polynucleotide preparation 2.1µl 20XSSC (1.5M NaCl, 150mM NaCitrate (pH8.0)) and 0.35µl 10%SDS is added.

5.3.1.3 HYBRIDIZATION TO MICROARRAYS

In some embodiments, nucleic acid hybridization and wash conditions are chosen so that the polynucleotide molecules to be analyzed by the invention (e.g., "target

20   polynucleotide molecules) specifically bind or specifically hybridize to the complementary polynucleotide sequences of the array, typically to a specific array site, where its complementary DNA is located.

Arrays containing double-stranded probe DNA situated thereon can be subjected to denaturing conditions to render the DNA single-stranded prior to contacting with the target

25   polynucleotide molecules. Arrays containing single-stranded probe DNA (e.g., synthetic oligodeoxyribonucleic acids) may need to be denatured prior to contacting with the target polynucleotide molecules, e.g., to remove hairpins or dimers which form due to self complementary sequences.

Optimal hybridization conditions will depend on the length (e.g., oligomer versus

30   polynucleotide greater than 200 bases) and type (e.g., RNA, or DNA) of probe and target nucleic acids. General parameters for specific (i.e., stringent) hybridization conditions for nucleic acids are described in Sambfook et ah, (supra), and in Ausubel et ah, 1987, *Current Protocols in Molecular Biology*, Greene Publishing and Wiley-Interscience, New York. When the cDNA microarrays of Schena et al. are used, typical hybridization

conditions are hybridization in 5 X SSC plus 0.2% SDS at 65 °C for four hours, followed

by washes at 25°C in low stringency wash buffer (1 X SSC plus 0.2% SDS), followed by

10 minutes at 25°C in higher stringency wash buffer (0.1 X SSC plus 0.2% SDS) (Shena *et*

al, 1996, *Proc. Natl. Acad. Sci. U.S.A.* P3: 10614). Useful hybridization conditions are

5   also provided in, *e.g.*, Tijessen, 1993, *Hybridization With Nucleic Acid Probes*, Elsevier

Science Publishers B.V. and Kricka, 1992, Nonisotopic DNA Probe Techniques,

Academic Press, San Diego, CA.

Representative hybridization conditions for use with the screening and/or signaling

chips in accordance with some embodiments of the present invention include hybridization

10   at a temperature at or near the mean melting temperature of the probes *(e.g.*, within 5 °C,

more typically within 2 °C) in 1 M NaCl, 50 niM MES buffer (pH 6.5), 0.5% sodium

Sarcosine and 30% formamide.

In a specific embodiment, a labeled target polynucleotide molecules are denatured

by heating for two minutes at 100°C, and incubated at 37°C for 20-30 min before being

15   placed on a nucleic acid array under a 22mm x 22mm glass cover slip. Hybridization is

carried out at 65°C for fourteen to eighteen hours in a custom slide chamber with humidity

maintained by a small reservoir of 3XSSC. The array is washed by submersion and

agitation for between two and five minutes in 2X SSC with 0.1%SDS, followed by IX

SSC, and 0.1X SSC. Finally, the array is dried by centrifugation for 2 min in a slide rack

20   in a Beckman GS-6 tabletop centrifuge in Microplus carriers at 650 RPM for two minutes.

5.3.1.4 SIGNAL DETECTION AND DATA ANALYSIS

It will be appreciated that when target sequences, e.g., cDNA or cRNA,

complementary to the RNA of a blood sample is made and hybridized to a microarray

under suitable hybridization conditions, the level of hybridization to the site in the array

25   corresponding to an exon of any particular gene will reflect the prevalence in the cell of

mRNA or mRNAs containing the exon transcribed from that gene. For example, when

detectably labeled (e.g., with a fluorophore) cDNA complementary to the total cellular

mRNA is hybridized to a microarray, the site on the array corresponding to an exon of a

gene (i.e., capable of specifically binding the product or products of the gene expressing)

30   that is not transcribed or is removed during RNA splicing in the cell will have little or no

signal (e.g., fluorescent signal), and an exon of a gene for which the encoded mRNA

expressing the exon is prevalent will have a relatively strong signal. The relative

abundance of different mRNAs produced from the same gene by alternative splicing is

then determined by the signal strength pattern across the whole set of exons monitored for the gene.

Generally, any form of image processing may be used to digitize the microarrays and thereby obtain high throughput data for molecular markers in the present invention.

5   For example, any of the image processing techniques described or referenced in Draghici, *Data Analysis Tools For DNA Microarrays,* 2003, Chapman & Hall, CRC Press, New York, pp. 33-58, which is hereby incorporated by reference in its entirety, can be used. In some embodiments, two-color fluorescence is used. The use of a two-color fluorescence labeling and detection scheme to define alterations in gene expression has been described

10 in connection with detection of mRNAs, *e.g.,* in Shena *et al,* 1995, Science 270:467-470, which is hereby incorporated by reference in its entirety for all purposes. The scheme is equally applicable to labeling and detection of exons. An advantage of using target sequences, *e.g.,* cDNAs or cRNAs, labeled with two different fluorophores is that a direct and internally controlled comparison of the mRNA or exon expression levels

15 corresponding to each arrayed gene in two states can be made, and variations due to minor differences in experimental conditions *{e.g.,* hybridization conditions) will not affect subsequent analyses.

In a specific embodiment, the labeled probes are scanned using a GMS Scanner 418 and Scananlzyer software (Michael Eisen, Stamford University), followed by

20 GeneSpring software (Silcon Genetics, CA) analysis. In another embodiment, a GMS Scanner 428 and Jaguar software are used followed by GeneSpring software analysis. In some embodiments a normalization routine, such as any of the normalization routines described in Section 5.7, is used.

5.3.2   RT-PCR AND QUANTITATIVERT-PCR

25 In one aspect of the invention, the abundance or level of expression of an RNA product of a molecular marker can be measured performing reverse transcription on the RNA from blood and subsequently amplifying the resulting product ("RT-PCR"). In another embodiment, the abundance or level of expression of RNA can be measured from a blood sample by using quantitative RT-PCR or real time PCR ("QRT-PCR") on cDNA

30 copy of RNA. Total RNA, or mRNA from a blood sample can be used as a template and a primer specific to the transcribed portion of a gene of the invention is used to initiate reverse transcription. Methods of reverse transcribing RNA into cDNA are well known and described in, for example, Sambrook et al., 1989, *supra.* Primer design can be accomplished utilizing commercially available software (e.g., Primer Designer 1.0,

academic software, etc.). The product of the reverse transcription is subsequently used as a template for PCR. In one embodiment, a one step process can be used for either the RT-PCR and/or the QRT-PCR(combining the reverse transcription and PCR in a single reaction). In another embodiment, a two step process can be used for either the RT-PCR

5   and/or the QRT-PCR (first doing the reverse transcription step and subsequently performing the PCR) . In some embodiments, oligo(dT)-primed first strand cDNA synthesis is performed so as to specifically target the mRNA population (e.g. using the Applied Biosystems High Capacity cDNA Archive Kit (cat # 4322171), on a Perkin-Elmer DNA Thermal Cycler.

10   For quantitative RT-PCR, in some embodiments the reportable value is the Ct-value, which is the threshold cycle at which PCR is in the logarithmic phase. For each gene of interest in each RNA sample, a ΔCt value can be calculated by the formula: ΔCt = (Ct, target gene) - (Ct,β-actin). The ΔCt values from different groups of RNA samples can then be compared by the Mann-Whitney Rank Sum test.

15   In some embodiments, Quantitative RT-PCR can be done using probes including Taqman® probes (Perkin Elmer, Foster City, California), The probe is specific for the PCR product and has both a quencher and fluorescent reporter attached to the probe. Different fluorescent markers can be utilized. In some embodiments, multiple probes can be used in the quantitative RT-PCR process to allow for multiplexing reactions (e.g. allow

20   for measurement of two molecular markers in one reaction well or container). When using TaqMan® probes, Taq DNA polymerase is used which has 5'-to-3' exonuclease activity and thus will cleave of the fluorescent reporter of the probe, freeing the fluorescent molecular from the quencher molecule. Thus the emission of fluorescence is is used to measure the amount of PCR product being made.   Other probes are also useful for

25   quantitative RT-PCR including Molecular Beacons®.

Other known techniques for quantitative Rt-PCR is to use an intercolating dye such as the commercially available QuantiTect™ SYBR® Green PCR (Qiagen, Valencia California).

Additionally, other systems to quantitatively measure mRNA expression products

30   are known including Scorpions® (Zeneca Limited) or Fluorescent Polarization Probes (see e.g. *Zeneca Limited, 6,007,984)* etc.

5.3.3   NUCLEASE PROTECTION ASSAYS

Nuclease protection assays (including both ribonuclease protection assays and S1 nuclease assays) can be used to detect and quantify specific products of molecular

markers. In nuclease protection assays, an antisense probe (labeled with, e.g., radiolabeled or nonisotopic) hybridizes in solution to an RNA sample. Following hybridization, single-stranded, unhybridized probe and RNA are degraded by nucleases. An acrylamide gel is used to separate the remaining protected fragments. Typically, solution hybridization is

5   more efficient than membrane-based hybridization, and it can accommodate up to 100 μg of sample RNA, compared with the 20-30 μg maximum of blot hybridizations.

The ribonuclease protection assay, which is the most common type of nuclease protection assay, requires the use of RNA probes. Oligonucleotides and other single-stranded DNA probes can only be used in assays containing S1 nuclease. The single-

10   stranded, antisense probe must typically be completely homologous to target RNA to prevent cleavage of the probe:target hybrid by nuclease.

5.3.4 MASS SPECTROMETRY

Mass spectrometry (e.g., electrospray ionization "ESI", matrix-assisted laser desorption-ionization "MALDI ", and Fourier-transform ion cyclotron resonance "FT-

15   ICR") can be used to measure data (e.g., mass, charge) of molecular markers in blood samples. Such molecular markers that can be characterized by mass spectrometry include but are not limited to, proteins, nucleic acids, carbohydrates, and other biological macromolecules. This section provides brief and non-limiting examples of mass spectrometry techniques that can be used to quantitatively characterize molecular markers.

20   MALDI uses a pulsed laser for desorption of the ions and a time-of-flight analyzer and has been used for the detection of noncovalent tRNA:amino-acyl-tRNA synthetase complexes. See, for example, Gruic-Sovulj et al., 1997, J. Biol. Chem. 272:32084. ESI mass spectrometry ("ESI-MS") has been used for studying non-covalent molecular interactions. ESI-MS generates molecular ions with little to no fragmentation. See, for

25   example, Xavier et al., 2000, Trends Biotechnol. 18:349. Fourier-transform ion cyclotron resonance ("FT-ICR") mass spectrometry provides high-resolution spectra, isotope-resolved precursor ion selection, and accurate mass assignments. See, for example, Xavier et al., 2000, Trends Biotechnol. 18:349.

Tandem mass spectrometry is described in Link et al., 1999, Nat. Biotechnol. 17,

30   676-682; Washburn et al. 2001, Nat. Biotechnol. 19, 242; Gaven et al., 2002, Nature 415, 141; and Ho et al., 2002, Nature 418, 180). In the case of proteins from a blood sample, the proteins can first be digested into peptides using an enzyme such as trypsin and then subjected to liquid chromatography tandem mass spectrometry (MS/MS). Liquid chromatography provides an initial separation of the peptides, which are then ionized

directly into a mass spectrometer. Following an initial scan in which the mass/charge ratio of all intact (parent) ions from the peptides are measured, the mass spectrometer selects a parent ion, fragments it and obtains the mass spectrum of the generated fragments. These fragmentation patterns are called tandem mass spectra or MS/MS spectra. This process of

5   ion selection and fragmentation is repeated throughout the liquid chromatography separation, thus generating a set of time resolved MS/MS spectra, with each spectrum representing a species eluting at a particular time from the LC separation. The resolving power of the liquid chromatography step, combined with the high mass resolution of modern mass spectrometers typically assures that each MS/MS spectrum represents the

10 fragmentation pattern of a unique peptide in the digest.

5.3.5   COMPARATIVE GENE EXPRESSION PROFILING

In some embodiments of the present invention quantitative measurement of molecular marker data is performed using comparative gene-expression profiling. An example of such technology is the multiplex microsphere bead assay used by Fuja et al.,

15 2004, Journal of Biotechnology 108, 193,.

5.3.6   TRANSCRIPTION BASED AMPLIFICATION SYSTEMS

In another aspect of the invention, the level of expression of a molecular marker in blood can be measured by amplifying RNA from a blood sample using transcription based amplification systems (TAS), including nucleic acid sequence

20 amplification (NASBA) and 3SR. See, e.g., Kwoh et al., 1989, PNAS USA 86:1 173; International Publication No. WO 88/10315; and U.S. Patent No. 6,329,179. In NASBA, the nucleic acids can be prepared for amplification using conventional phenol/chloroform extraction, heat denaturation, treatment with lysis buffer and minispin columns for isolation of DNA and RNA or guanidinium chloride extraction of RNA. These

25 amplification techniques involve annealing a primer that has target specific sequences. Following polymerization, DNA/RNA hybrids are digested with RNase H while double stranded DNA molecules are heat denatured again. In either case, the single stranded DNA is made fully double stranded by addition of second target specific primer, followed by polymerization. The double-stranded DNA molecules are then multiply transcribed by

30 a polymerase such as T7 or SP6. In an isothermal cyclic reaction, the RNA's are reverse transcribed into double stranded DNA, and transcribed once with a polymerase such as T7 or SP6. The resulting products, whether truncated or complete, indicate target specific sequences.

5.3.7 ADDITIONAL TECHNIQUES FOR DETECTING AND QUANTIFYING RNA

Many other techniques are known to one of skill for detecting and measuring RNA and can be used in accordance with the methods of the invention. Non-limiting examples of such techniques include Northern blotting, nuclease protection assays, RNA fingerprinting, polymerase chain reaction, ligase chain reaction, Qbeta replicase, isothermal amplification method, strand displacement amplification, transcription based amplification systems, nuclease protection (SI nuclease or RNAse protection assays) as well as methods disclosed in International Publication Nos. WO 88/1 03 15 and WO 89/06700, and International Applications Nos. PCT/US87/00880 and PCT/US 89/0 1025.

A standard Northern blot assay can be used to ascertain an RNA transcript size, identify alternatively spliced RNA transcripts, and the relative amounts of mRNA in a blood sample, in accordance with conventional Northern hybridization techniques known to those persons of ordinary skill in the art. In Northern blots, RNA samples are first separated by size via electrophoresis in an agarose gel under denaturing conditions. The RNA is then transferred to a membrane, crosslinked and hybridized with a labeled probe. Nonisotopic or high specific activity radiolabeled probes can be used including random-primed, nick-translated, or PCR-generated DNA probes, in vitro transcribed RNA probes, and oligonucleotides. Additionally, sequences with only partial homology (e.g., cDNA from a different species or genomic DNA fragments that might contain an exon) may be used as probes. The labeled probe, e.g., a radiolabeled cDNA, either containing the full-length, single stranded DNA or a fragment of that DNA sequence may be at least 20, at least 30, at least 50, or at least 100 consecutive nucleotides in length. The probe can be labeled by any of the many different methods known to those skilled in this art. The labels most commonly employed for these studies are radioactive elements, enzymes, chemicals that fluoresce when exposed to ultraviolet light, and others. A number of fluorescent materials are known and can be utilized as labels. These include, but are not limited to, fluorescein, rhodamine, auramine, Texas Red, AMCA blue and Lucifer Yellow. A articular detecting material is anti-rabbit antibody prepared in goats and conjugated with fluorescein through an isothiocyanate. Proteins can also be labeled with a radioactive element or with an enzyme. The radioactive label can be detected by any of the currently available counting procedures. Non-limiting examples of isotopes include 3H, 14C, 32P, 35S, 36Cl, 51Cr, 57Co, 58Co, 59Fe, 9OY, 125I, 131I, and 186Re. Enzyme labels are

likewise useful, and can be detected by any of the presently utilized colorimetric, pectrophotometric, fluorospectrophotometric, amperometric or gasometric techniques. The enzyme is conjugated to the selected particle by reaction with bridging molecules such as carbodiimides, diisocyanates, glutaraldehyde and the like. Any enzymes known to one of skill in the art can be utilized. Examples of such enzymes include, but are not limited to, peroxidase, beta-D-galactosidase, urease, glucose oxidase plus peroxidase and alkaline phosphatase. U.S. Patent Nos. 3,654,090, 3,850,752, and 4,016,043 are referred to by way of example for their disclosure of alternate labeling material and methods.

Nuclease protection assays (including both ribonuclease protection assays and S1 nuclease assays) can be used to detect and quantitate specific mRNAs. In nuclease protection assays, an antisense probe (labeled with, e.g., radiolabeled or nonisotopic) hybridizes in solution to an RNA sample. Following hybridization, single-stranded, unhybridized probe and RNA are degraded by nucleases. An acrylamide gel is used to separate the remaining protected fragments. Typically, solution hybridization is more efficient than membrane-based hybridization, and it can accommodate up to 100 μg of sample RNA, compared with the 20-30 μg maximum of blot hybridizations.

The ribonuclease protection assay, which is the most common type of nuclease protection assay, requires the use of RNA probes. Oligonucleotides and other single-stranded DNA probes can only be used in assays containing S1 nuclease. The single-stranded, antisense probe must typically be completely homologous to target RNA to prevent cleavage of the probe:target hybrid by nuclease.

Additional techniques to quantitatively measure RNA expression include, but are not limited to, ligase chain reaction, Qbeta replicase (see, e.g., International Application No. PCT/US87/00880), isothermal amplification method (see, e.g., Walker et al.,1992, PNAS 89:382-396), strand displacement amplification (SDA), repair chain reaction, Asymmetric Quantitative PCR (see, e.g., U.S. Publication No. US200330134307A1) and the multiplex microsphere bead assay described in Fuja et al., 2004, Journal of Biotechnology 108:193-205.

5.3.7.1 SEPARATION OF AMPLIFICATION PRODUCTS

Some of the quantitative measurement techniques described above may require separation of amplification products. Several techniques can be used to separate such amplification products. For example, amplification products can be separated by agarose, agarose-acrylamide or polyacrylamide gel electrophoresis using conventional methods. Several techniques for detecting PCR products quantitatively without electrophoresis can

also be used according to the invention. See, for example, *CR Protocols, A Guide to Methods and Applications,* Innis *et aL,* Academic Press, Inc. N.Y., 1990). For example, chromatographic techniques can be employed to effect separation. There are many kinds of chromatography that can be used in the present invention: adsorption, partition, ion-

5   exchange and molecular sieve, HPLC, and many specialized techniques for using them including column, paper, thin-layer and gas chromatography (Freifelder, Physical Biochemistry Applications to Biochemistry and Molecular Biology, 2nd ed., Wm. Freeman and Co., New York, N.Y., 1982).

Another example of a separation methodology is done by covalently labeling the

10   oligonucleotide primers used in a PCR reaction with various types of small molecule ligands. In one such separation, a different ligand is present on each oligonucleotide. A molecule, perhaps an antibody or avidin if the ligand is biotin, that specifically binds to one of the ligands is used to coat the surface of a plate such as a 96 well ELISA plate. Upon application of the PCR reactions to the surface of such a prepared plate, the PCR

15   products are bound with specificity to the surface. After washing the plate to remove unbound reagents, a solution containing a second molecule that binds to the first ligand is added. This second molecule is linked to some kind of reporter system. The second molecule only binds to the plate if a PCR product has been produced whereby both oligonucleotide primers are incorporated into the final PCR products. The amount of the

20   PCR product is then detected and quantified in a commercial plate reader much as ELISA reactions are detected and quantified. An ELISA-like system such as the one described here has been developed by the Raggio Italgene company under the C-Track trade name.

5.3.7.2 VISUALIZATION OF AMPLIFICATION PRODUCTS

Some of the quantitative measurement techniques described above may require

25   visualization of amplification products. Amplification products are visualized, for example, in order to confirm amplification of the marker sequences. One typical visualization method involves staining of a gel with ethidium bromide and visualization under UV light. Alternatively, if the amplification products are integrally labeled with radio- or fluorometrically-labeled nucleotides, the amplification products may then be

30   exposed to x-ray film or visualized under the appropriate stimulating spectra, following separation.

In one embodiment, visualization is achieved indirectly. Following separation of amplification products, a labeled, nucleic acid probe is brought into contact with the amplified marker sequence. The probe preferably is conjugated to a chromophore but may

be radiolabeled. In another embodiment, the probe is conjugated to a binding partner, such as an antibody or biotin, where the other member of the binding pair carries a detectable moiety.

In another embodiment, detection is by Southern blotting and hybridization with a labeled probe. The techniques involved in Southern blotting are well known to those of skill in the art and may be found in many standard books on molecular protocols. See Sambrook et al., 1989. Briefly, amplification products are separated by gel electrophoresis. The gel is then contacted with a membrane, such as nitrocellulose, permitting transfer of the nucleic acid and non-covalent binding. Subsequently, the membrane is incubated with a chromophore-conjugated probe that is capable of hybridizing with a target amplification product. Detection is by exposure of the membrane to x-ray film or ion-emitting detection devices.

One example of the foregoing is described in U.S. Pat. No. 5,279,721, incorporated by reference herein, which discloses an apparatus and method for the automated electrophoresis and transfer of nucleic acids. The apparatus permits electrophoresis and blotting without external manipulation of the gel and is ideally suited to carrying out methods according to the present invention.

5.4   METHODS FOR MEASURING MOLECULAR MARKER DATA REFLECTIVE OF ABUNDANCE OF PROTEIN PRODUCTS OF MOLECULAR MARKERS

Measurement of the abundance of protein products of molecular markers in blood may be performed using a number of separation techniques combined with a monitoring system. For example, whole genome monitoring of protein (e.g., the "proteome,") can be carried out using commercial systems such as a SELDI® Chip by Ciphergen. In addition, protein microarrays comprised of immobilized, preferably monoclonal, antibodies specific to a plurality of protein species encoded by the cell genome can be used, (e.g., The ProteinChip® Biomarker System, Ciphergen, Fremont, California). See also, for example, Lin, 2004, Modern Pathology, 1-9; Li, 2004, Journal of Urology 171, 1782-1787; Wadsworth, 2004, Clinical Cancer Research, 10, 1625-1632; Prieto, 2003, Journal of Liquid Chromatography & Related Technologies 26, 2315-2328; Coombes, 2003, Clinical Chemistry 49, 1615-1623; Mian, 2003, Proteomics 3, 1725-1737; Lehre et al, 2003, BJU International 92, 223-225; and Diamond, 2003, Journal of the American Society for Mass Spectrometry 14, 760-765, which are hereby incorporated by reference in their entireties.

In one embodiment, antibodies can be used to measure protein products of the candidate molecular markers. Methods for making monoclonal antibodies are well known (see, *e.g.*, Harlow and Lane, 1988, *Antibodies: A Laboratory Manual,* Cold Spring Harbor, New York, which is incorporated in its entirety for all purposes). In one embodiment,

5   monoclonal antibodies are raised against synthetic peptide fragments designed based on genomic sequence of the cell. With such an antibody array, proteins from the cell are contacted to the array and their binding is assayed with assays known in the art.

Immunoassays known to one of skill in the art can be used to detect and quantify protein levels. For example, ELISAs can be used to detect and quantify protein levels.

10   ELISAs comprise preparing antigen, coating the well of a 96 well microtiter plate with the antigen, adding the antibody of interest conjugated to a detectable compound such as an enzymatic substrate *(e.g.,* horseradish peroxidase or alkaline phosphatase) to the well and incubating for a period of time, and detecting the presence of the antigen. In ELISAs the antibody of interest does not have to be conjugated to a detectable compound; instead, a

15   second antibody (which recognizes the antibody of interest) conjugated to a detectable compound may be added to the well. Further, instead of coating the well with the antigen, the antibody may be coated to the well. In this case, a second antibody conjugated to a detectable compound may be added following the addition of the antigen of interest to the coated well. One of skill in the art would be knowledgeable as to the parameters that can

20   be modified to increase the signal detected as well as other variations of ELISAs known in the art. In a preferred embodiment, an ELISA may be performed by coating a high binding 96-well microtiter plate (Costar) with 2 μg/ml of rhu-IL-9 in PBS overnight. Following three washes with PBS, the plate is incubated with three-fold serial dilutions of Fab at 25°C for 1 hour. Following another three washes of PBS, 1 μg/ml anti-human

25   kappa-alkaline phosphatase-conjugate is added and the plate is incubated for 1 hour at 25°C. Following three washes with PBST, the alkaline phosphatase activity is determined in 50 μl/AMP/PPMP substrate. The reactions are stopped and the absorbance at 560 nm is determined with a VMAX microplate reader. For further discussion regarding ELISAs see, *e.g.,* Ausubel et al, eds, 1994, Current Protocols in Molecular Biology, Vol. 1, John

30   Wiley & Sons, Inc., New York at 11.2.1.

Protein levels may be determined by Western blot analysis. Further, protein levels as well as the phosphorylation of proteins can be determined by immunoprecitation followed by Western blot analysis. Immunoprecipitation protocols generally comprise lysing a population of cells in a lysis buffer such as RIPA buffer (1% NP-40 or Triton X-

100, 1% sodium deoxycholate, 0.1% SDS, 0.15 M NaCl, 0.01 M sodium phosphate at pH

7.2, 1% Trasylol) supplemented with protein phosphatase and/or protease inhibitors *(e.g.,*

EDTA, PMSF, aprotinin, sodium vanadate), adding the antibody of interest to the cell

lysate, incubating for a period of time *(e.g.,* 1 to 4 hours) at 40° C, adding protein A and/or

5   protein G sepharose beads to the cell lysate, incubating for about an hour or more at 40° C,

washing the beads in lysis buffer and resuspending the beads in SDS/sample buffer. The

ability of the antibody of interest to immunoprecipitate a particular antigen can be assessed

by, *e.g.,* western blot analysis. One of skill in the art would be knowledgeable as to the

parameters that can be modified to increase the binding of the antibody to an antigen and

10   decrease the background *(e.g.,* pre-clearing the cell lysate with sepharose beads). For

further discussion regarding immunoprecipitation protocols see, *e.g.,* Ausubel et al, eds,

1994, Current Protocols in Molecular Biology, Vol. 1, John Wiley & Sons, Inc., New York

at 10.16.1.

Western blot analysis generally comprises preparing protein samples,

15   electrophoresis of the protein samples in a polyacrylamide gel *(e.g.,* 8%- 20% SDS-PAGE

depending on the molecular weight of the antigen), transferring the protein sample from

the polyacrylamide gel to a membrane such as nitrocellulose, PVDF or nylon, incubating

the membrane in blocking solution *(e.g.,* PBS with 3% BSA or non-fat milk), washing the

membrane in washing buffer *(e.g.,* PBS-Tween 20), incubating the membrane with

20   primary antibody (the antibody of interest) diluted in blocking buffer, washing the

membrane in washing buffer, incubating the membrane with a secondary antibody (which

recognizes the primary antibody, *e.g.,* an anti-human antibody) conjugated to an enzymatic

substrate *(e.g.,* horseradish peroxidase or alkaline phosphatase) or radioactive molecule

(e.g., ^{32}p or ^{125}I) diluted in blocking buffer, washing the membrane in wash buffer, and

25   detecting the presence of the antigen. One of skill in the art would be knowledgeable as to

the parameters that can be modified to increase the signal detected and to reduce the

background noise. For further discussion regarding western blot protocols see, *e.g.,*

Ausubel et al, eds, 1994, Current Protocols in Molecular Biology, Vol. 1, John Wiley &

Sons, Inc., New York at 10.8.1.

30   Protein expression levels can also be separated by two-dimensional gel

electrophoresis systems. Two-dimensional gel electrophoresis is well-known in the art and

typically involves isoelectric focusing along a first dimension followed by SDS-PAGE

electrophoresis along a second dimension. See, *e.g.,* Hames *et al,* 1990, *Gel*

Electrophoresis of Proteins: A Practical Approach, IRL Press, New York; Shevchenko *et*

al., 1996, *Proc. Natl. Acad. ScL USA* 93:1440-1445; Sagliocco *et al.,* 1996, *Yeast* 12:1519-
1533; Lander, 1996, *Science* 274:536-539. The resulting electropherograms can be
analyzed by numerous techniques, including mass spectrometric techniques, Western
blotting and immunoblot analysis using polyclonal and monoclonal antibodies, and
5   internal and N-terminal micro-sequencing.

<div align="center">5.5   USES OF CLASSIFIERS IDENTIFIED</div>

In exemplary embodiments, the classifiers constructed in accordance with the
present invention can be used to detect, diagnose, prognose and/or monitor a trait in a test
individual. In a specific embodiment, a classifier or classifier group constructed in
10   accordance with Section 5.1 is used to detect, diagnose, prognose and/or monitor a disease
in said test individual. In another embodiment, a classifier or classifier group constructed
in accordance with Section 5.1 is used to detect, diagnose, prognose and/or monitor a
reoccurrence of disease in said test individual. In another embodiment, a classifyer or
classifier group constructed in accordance with the invention is used to evaluate or predict
15   the efficacy of treatment in a subject. In another embodiment, a classifier or classifier
group constructed in accordance with the invention is used to predict whether a subject
will be responsive to treatment and/or treatment outcomes. In another embodiment, a
classifier or classifier group constructed in accordance with the invention is used to
monitor and/or predict treatment compliance or non-compliance. In another embodiment,
20   a classifier or classifier group constructed in accordance with the methods of the invention
is indicative of the responsiveness of a subject to a stimulus (whether external or internal,
e.g., smoke, pollution, sunlight, heat, and mutations) and is used to evaluate or predict the
response of a subject to such stimulus.

In yet another embodiment, the molecular markers identified by the classifiers of
25   the invention can be used independently of the classifier to detect, diagnose, prognose,
predict and/or monitor a trait. In such embodiments, said detection, diagnosis, prognosis,
prediction and/or monitoring of a test individual can be accomplished by monitoring the
gene expression pattern or profile of the molecular markers identified by the classifier or
classifier group of the invention of a test individual and comparing said pattern or profile
30   to a gene expression pattern or profile of a control individual or group of individuals who
have said trait. In another embodiment, the gene expression pattern or profile of the test
individual can be compared with a control individual or group of individuals who do not
have said trait. In another embodiment, the gene expression pattern or profile of the test
individual is compared as between individuals or group of individuals who have said trait

<div align="center">111</div>

and who do not have said trait. In yet another embodiment, the gene expression pattern or profile of the test individual is compared with the individuals used for the training population. In yet another embodiment, the gene expression pattern or profile of the test individual is compared with the individuals of the scoring population. As used herein, a

5   "gene expression pattern" or "gene expression profile" indicates the combined pattern of the results of the analysis of the level of expression of two or more biomarkers of the invention including 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 or all of the biomarkers of the classifier or classifier groups. A gene expression pattern or gene expression profile can result from the measurement of expression of the products of the biomarkers of the invention and can be

10   done by measuring either the RNA or the proteins corresponding to said molecular marker using any any of the techniques described herein. For example techniques to measure expression of the RNA products of the biomarkers of the invention includes, PCR based methods (including RT-PCR and quantitative RT-PCR) and non PCR based method ' as well as microarray analysis. To measure protein products of the biomarkers of the

15   invention, techniques include western blotting and ELISA analysis.

<div align="center">5.6   KITS</div>

One embodiment of the present invention comprises kits for measuring molecular marker data by providing the materials necessary to measure the abundance of one or more of the products of one or more molecular markers of the classifier or classifier groups

20   identified. Such kits may comprise materials and reagents required for measuring molecular marker data where the product of the molecular marker is RNA or protein. In some embodiments, such kits include microarrays wherein the microarray is comprised of oligonucleotides and/or DNA and/or RNA fragments which hybridize to one or more of the products of one or more of the molecular markers of a classifier or classifier group. In

25   some embodiments, such kits may include primers for PCR of either the RNA product or the cDNA copy of the RNA product of the molecular marker or both. In some embodiments, such kits may include primers for PCR as well as probes for Quantitative PCR. In some embodiments, such kits may include multiple primers and multiple probes wherein some of said probes have different flourophores so as to permit multiplexing of

30   multiple products of a single molecular marker or multiple products wherein each product results from a single molecular marker. In some embodiments, such kits may further include materials and reagents for creating cDNA from RNA. In some embodiments, such kits may include antibodies specific for the protein products of a molecular marker. Such kits may additionally comprise materials and reagents for isolating RNA and/or proteins

<div align="center">112</div>

from a blood sample. Such kits may additionally comprise materials and reagents for isolating RNA and/or proteins from a non-blood tissue sample. In addition such kits may include materials and reagents for synthesizing cDNA from RNA isolated from a blood sample. In some embodiments of the present invention such kits may include, a computer

5   program product embedded on computer readable media for determining whether a subject has a trait of interest. In some embodiments of the present invention, the kits of the invention may include a computer program product embedded on a computer readable media along with instructions.

In some embodiments, the invention provides kits for measuring the expression of

10   one or more nucleic acid sequences of one or more molecular markers. In a specific embodiment, such kits measure the expression of one or more nucleic acid sequences associated with a molecular marker which has been determined according to the method of the invention as being indicative of a trait of interest, hi accordance with this embodiment, the kits may comprise materials and reagents that are necessary for

15   measuring the expression of particular nucleic acid sequence products of molecular markers identified by a classifier or classifier group of the invention. For example, a microarray or RT-PCR kit may be produced for a specific condition and contain only those reagents and materials necessary for measuring the levels of specific RNA transcript products of the molecular markers associated with the classifier or classifier groups

20   selected in accordance with one embodiment of the invention. Alternatively, in some embodiments, the kits can comprise materials and reagents that are not limited to those required to measure the expression of particular nucleic acid sequences of any particular molecular marker. For example, in certain embodiments, the kits comprise materials and reagents necessary for measuring the levels of expression of 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15,

25   20, 25, 30, 35, 40, 45, 50 or more of the molecular markers of the invention, in addition to reagents and materials necessary for measuring the levels of the expression of at least 1, at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, at least 8, at least 9, at least 10, at least 15, at least 20, at least 25, at least 30, at least 35, at least 40, at least 45, at least 50 or more genes other than the molecular markers of the invention. In other embodiments,

30   the kits contain reagents and materials necessary for measuring the levels of expression of at least 1, at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, at least 8, at least 9, at least 10, at least 15, at least 20, at least 25, at least 30, at least 35, at least 40, at least 45, at least 50 or more of the molecular markers of the invention, and 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 125, 150, 175, 200, 225, 250,

300, 350, 400, 450, or more genes that are not molecular markers of the invention, or 1-10, 1-100, 1-150, 1-200, 1-300, 1-400, 1-500, 1-1000, 25-100, 25-200, 25-300, 25-400, 25-500, 25-1000, 100-150, 100-200, 100-300, 100-400, 100-500, 100-1000 or 500-1000 genes that are not molecular markers of the invention.

5   For nucleic acid micoarray kits, the kits generally comprise probes attached to a solid support surface. In one such embodiment, probes can be either oligonucleotides or longer length probes including probes ranging from 150 nucleotides in length to 800 nucleotides in length. The probes may be labeled with a detectable label. In a specific embodiment, the probes are specific for one or more of the products of a specific

10   molecular marker identified following the methods of section 5.1. The microarray kits may comprise instructions for performing the assay and methods for interpreting and analyzing the data resulting from the performance of the assay. In a specific embodiment, the kits comprise instructions for diagnosing a trait of interest. The kits may also comprise hybridization reagents and/or reagents necessary for detecting a signal produced when a

15   probe hybridizes to a target nucleic acid sequence. Generally, the materials and reagents for the microarray kits are in one or more containers. Each component of the kit is generally in its own a suitable container.

In certain embodiments, a nucleic acid microarray kit comprises materials and reagents necessary for measuring the levels of expression of 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 15,

20   20, 25, 30, 35, 40, 45, 50 or more of the molecular markers of the invention, in addition to reagents and materials necessary for measuring the levels of the expression of at least 1, at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, at least 8, at least 9, at least 10, at least 15, at least 20, at least 25, at least 30, at least 35, at least 40, at least 45, at least 50 or more genes other than the molecular markers of the invention. In other embodiments, a

25   nucleic acid microarray kit contains reagents and materials necessary for measuring the levels of expression of at least 1, at least 2, at least 3, at least 4, at least 5, at least 6, at least 7, at least 8, at least 9, at least 10, at least 15, at least 20, at least 25, at least 30, at least 35, at least 40, at least 45, at least 50 or more of the molecular markers of the invention, and 1, 2, 3, 4, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 125,

30   150, 175, 200, 225, 250, 300, 350, 400, 450, or more genes that are not molecular markers of the invention, or 1-10, 1-100, 1-150, 1-200, 1-300, 1-400, 1-500, 1-1000, 25-100, 25-200, 25-300, 25-400, 25-500, 25-1000, 100-150, 100-200, 100-300, 100-400, 100-500, 100-1000 or 500-1000 genes that are not molecular markers of the invention.

For Quantitative PCR, the kits generally comprise pre-selected primers specific for particular nucleic acid sequences. The Quantitative PCR kits may also comprise enzymes suitable for amplifying nucleic acids (e.g., polymerases such as Taq), and deoxynucleotides and buffers needed for the reaction mixture for amplification. The

5   Quantitative PCR kits may also comprise probes specific for the nucleic acid sequences associated with or indicative of a condition. The probes may or may not be labeled with a flourophore. The probes may or may not be labeled with a quencher molecule. In some embodiments the Quantitative PCR kits also comprise components suitable for reverse-transcribing RNA including enzymes (e.g. reverse transcriptases such as AMV, MMLV

10   and the like) and primers for reverse transcription along with deoxynucleotides and buffers needed for the reverse transcription reaction. Each component of the quantitative PCR kit is generally in its own suitable container. Thus, these kits generally comprise distinct containers suitable for each individual reagent, enzyme, primer and probe. Further, the quantitative PCR kits may comprise instructions for performing the assay and methods for

15   interpreting and analyzing the data resulting from the performance of the assay. In a specific embodiment, the kits contain instructions for diagnosing a trait of interest.

For antibody based kits, the kit can comprise, for example: (1) a first antibody (which may or may not be attached to a solid support) which binds to a peptide, polypeptide or protein of interest; and, optionally, (2) a second, different antibody which

20   binds to either the peptide, polypeptide or protein, or the first antibody and is conjugated to a detectable label (e.g., a fluorescent label, radioactive isotope or enzyme). In a specific embodiment, the peptide, polypeptide or protein of interest is associated with or indicative of a condition (e.g., a disease). The antibody-based kits may also comprise beads for conducting an immunoprecipitation. Each component of the antibody-based kits is

25   generally in its own suitable container. Thus, these kits generally comprise distinct containers suitable for each antibody. Further, the antibody-based kits may comprise instructions for performing the assay and methods for interpreting and analyzing the data resulting from the performance of the assay. In a specific embodiment, the kits contain instructions for diagnosing a trait of interest.

30   5.7   EXEMPLARY NORMALIZATION ROUTINES

A number of different normalization protocols can be used to normalize molecular marker data obtained using microarrays. Some such normalization protocols are described in this section. Typically, the normalization comprises normalizing the expression level measurement of each gene in a plurality of genes that is expressed by a subject. Many of

115

the normalization protocols described in this section are used to normalize microarray data. It will be appreciated that there are many other suitable normalization protocols that may be used in accordance with the present invention. All such protocols are within the scope of the present invention. Many of the normalization protocols found in this section are

5   found in publicly available software, such as Microarray Explorer (Image Processing Section, Laboratory of Experimental and Computational Biology, National Cancer Institute, Frederick, MD 21702, USA).

One normalization protocol is Z-score of intensity. In this protocol, raw expression intensities are normalized by the (mean intensity)/(standard deviation) of raw intensities

10   for all spots in a sample. For microarray data, the Z-score of intensity method normalizes each hybridized sample by the mean and standard deviation of the raw intensities for all of the spots in that sample. The mean intensity mnIj and the standard deviation sdIj are computed for the raw intensity of control genes. It is useful for standardizing the mean (to 0.0) and the range of data between hybridized samples to about -3.0 to +3.0. When using

15   the Z-score, the Z differences (Z_{diff}) are computed rather than ratios. The Z-score intensity (Z-score$_{ij}$) for intensity Iy for probe i (hybridization probe, protein, or other binding entity) and spot j is computed as:

$$Z\text{-score}_{ij} = (Iy - mmli) / sdIj,$$

and

20
$$Zdiff_{j}(x,y) = Z\text{-score}_{xj} - Z\text{-score}_{yj},$$

where x represents the x channel and y represents the y channel.

Another normalization protocol is the median intensity normalization protocol in which the raw intensities for all spots in each sample are normalized by the median of the raw intensities. For microarray data, the median intensity normalization method

25   normalizes each hybridized sample by the median of the raw intensities of control genes (medianπ) for all of the spots in that sample. Thus, upon normalization by the median intensity normalization method, the raw intensity Iij for probe i and spot j, has the value Iiny where,

30
$$Imy = (Iy / median Ili).$$

Another normalization protocol is the log median intensity protocol. In this protocol, raw expression intensities are normalized by the log of the median scaled raw intensities of representative spots for all spots in the sample. For microarray data, the log

median intensity method normalizes each hybridized sample by the log of median scaled raw intensities of control genes (medianlj) for all of the spots in that sample. As used herein, control genes are a set of genes that have reproducible accurately measured expression values. The value 1.0 is added to the intensity value to avoid taking the

5   log(O.O) when intensity has zero value. Upon normalization by the median intensity normalization method, the raw intensity I_{ij} for probe i and spot j, has the value Imy where,

$$Imjj = log(1.0 + (Ijj/ medianli)).$$

Yet another normalization protocol is the Z-score standard deviation log of

10   intensity protocol. In this protocol, raw expression intensities are normalized by the mean log intensity (mnLIj) and standard deviation log intensity (sdLIj). For microarray data, the mean log intensity and the standard deviation log intensity is computed for the log of raw intensity of control genes. Then, the Z-score intensity ZlogSy for probe i and spot j is:

$$ZlogSj_j = (log(I_i) - mnLIi)/sdLIi.$$

15   Still another normalization protocol is the Z-score mean absolute deviation of log intensity protocol. In this protocol, raw expression intensities are normalized by the Z-score of the log intensity using the equation (log(intensity)-mean logarithm) / standard deviation logarithm. For microarray data, the Z-score mean absolute deviation of log intensity protocol normalizes each bound sample by the mean and mean absolute deviation

20   of the logs of the raw intensities for all of the spots in the sample. The mean log intensity mnLIj and the mean absolute deviation log intensity madLI, are computed for the log of raw intensity of control genes. Then, the Z-score intensity ZlogAy for probe i and spot j is:

$$ZlogAjj = (log(I_j) - mnLIj)/madLIi.$$

Another normalization protocol is the user normalization gene set protocol. In this

25   protocol, raw expression intensities are normalized by the sum of the genes in a user defined gene set in each sample. This method is useful if a subset of genes has been determined to have relatively constant expression across a set of samples. Yet another normalization protocol is the calibration DNA gene set protocol in which each sample is normalized by the sum of calibration DNA genes. As used herein, calibration DNA genes

30   are genes that produce reproducible expression values that are accurately measured. Such genes tend to have the same expression values on each of several different microarray s. The algorithm is the same as user normalization gene set protocol described above, but the set is predefined as the genes flagged as calibration DNA.

Yet another normalization protocol is the ratio median intensity correction protocol. This protocol is useful in embodiments in which a two-color fluorescence labeling and detection scheme is used. In the case where the two fluors in a two-color fluorescence labeling and detection scheme are Cy3 and Cy5, measurements are

5   normalized by multiplying the ratio (Cy3/Cy5) by medianCy5/medianCy3 intensities. If background correction is enabled, measurements are normalized by multiplying the ratio (Cy3/Cy5) by (medianCy5-medianBkgdCy5) / (medianCy3-medianBkgdCy3) where medianBkgd means median background levels.

In some embodiments, intensity background correction is used to normalize

10   measurements. The background intensity data from a spot quantification programs may be used to correct spot intensity. Background may be specified as either a global value or on a per-spot basis. If the array images have low background, then intensity background correction may not be necessary.

5.8   EXEMPLARY DISEASES

15   As discussed *supra,* the present invention provides methods for developing classifiers that can be used to determine whether a patient has a certain trait including a disease. Exemplary diseases that can be identified include asthma, cancers, common late-onset Alzheimer's disease, diabetes, heart disease, hereditary early-onset Alzheimer's disease (George-Hyslop *etal,* 1990, *Nature* 347: 194), hereditary nonpolyposis colon

20   cancer, hypertension, infection, maturity-onset diabetes of the young (Barbosa *et al., 1976, Diabete Metab.* 2: 160), mellitus, nonalcoholic fatty liver (NAFL) (Younossi, *et al,* 2002, Hepatology 35, 746-752), nonalcoholic steatohepatitis (NASH) (James & Day, 1998, *J. Hepatol.* 29: 495-501), non-insulin-dependent diabetes mellitus, andpolycystic kidney disease (Reeders *et al,* 1987, *Human Genetics* 76: 348).

25   Disease also includes, blood disorder, blood lipid disease, autoimmune disease, arthritis (including osteoarthritis, rheumatoid arthritis, lupus, allergies, juvenile rheumatoid arthritis and the like), bone or joint disorder, a cardiovascular disorder (including heart failure, congenital heart disease; rheumatic fever, valvular heart disease; cor pulmonale, cardiomyopathy, myocarditis, pericardial disease; vascular diseases such as

30   atherosclerosis, acute myocardial infarction, ischemic heart disease and the like), obesity, respiratory disease (including asthma, pneumonitis, pneumonia, pulmonary infections, lung disease, bronchiectasis, tuburculosis, cystic fibrosis, interstitial lung disease, chronic bronchitis emphysema, pulmonary hypertension, pulmonary thromboembolism, acute respiratory distress syndrome and the like), hyperlipidemias, endocrine disorder, immune

disorder, infectious disease, muscle wasting and whole body wasting disorder, neurological disorders (including migraines, seizures, epilepsy, cerebrovascular diseases, alzheimers, dementia, parkinsons, ataxic disorders, motor neuron diseases, cranial nerve disorders, spinal cord disorders, meningitis and the like) including neurodegenerative

5 and/or neuropsychiatric diseases and mood disorders (including schizophrenia, anxiety, bipolar disorder; manic depression and the like, skin disorder, kidney disease, scleroderma, stroke, hereditary hemorrhage telangiectasia, diabetes, disorders associated with diabetes (e.g., PVD), hypertension, Gaucher's disease, cystic fibrosis, sickle cell anemia, liver disease, pancreatic disease, eye, ear, nose and/or throat disease, diseases affecting the

10 reproductive organs, gastrointestinal diseases (including diseases of the colon, diseases of the spleen, appendix, gall bladder, and others) and the like. For further discussion of human diseases, see Mendelian Inheritance in Man: A Catalog of Human Genes and Genetic Disorders by Victor A. McKusick (12th Edition (3 volume set) June 1998, Johns Hopkins University Press, ISBN: 0801857422) and Harrison's Principles of Internal

15 Medicine by Braunwald, Fauci, Kasper, Hauser, Longo, & Jameson (15th Edition 2001), the entirety of which is incorporated herein.

Cancers that can be identified using the inventive techniques of the present invention include, but are not limited to, human sarcomas and carcinomas, e.g., fibrosarcoma, myxosarcoma, liposarcoma, chondrosarcoma, osteogenic sarcoma,

20 chordoma, angiosarcoma, endotheliosarcoma, lymphangiosarcoma, lymphangioendotheliosarcoma, synovioma, mesothelioma, Ewing's tumor, leiomyosarcoma, rhabdomyosarcoma, colon carcinoma, pancreatic cancer, breast cancer, ovarian cancer, prostate cancer, squamous cell carcinoma, basal cell carcinoma, adenocarcinoma, sweat gland carcinoma, sebaceous gland carcinoma, papillary carcinoma,

25 papillary adenocarcinomas, cystadenocarcinoma, medullary carcinoma, bronchogenic carcinoma, renal cell carcinoma, hepatoma, bile duct carcinoma, choriocarcinoma, seminoma, embryonal carcinoma, Wilms' tumor, cervical cancer, testicular tumor, lung carcinoma, small cell lung carcinoma, bladder carcinoma, epithelial carcinoma, glioma, astrocytoma, medulloblastoma, craniopharyngioma, ependymoma, pinealoma,

30 hemangioblastoma, acoustic neuroma, oligodendroglioma, meningioma, melanoma, neuroblastoma, retinoblastoma; leukemias, e.g., acute lymphocytic leukemia and acute myelocytic leukemia (myeloblastic, promyelocyte, myelomonocytic, monocytic and erythroleukemia); chronic leukemia (chronic myelocytic (granulocytic) leukemia and chronic lymphocytic leukemia); and polycythemia vera, lymphoma (Hodgkin's disease

and non-Hodgkin's disease), multiple myeloma, Waldenstrom's macroglobulinemia, and heavy chain disease.

5.9   EXEMPLARY DATABASE ARCHITECTURES

In some embodiments, training population 44, candidate molecular marker data structure 58, patient database 68, and/or classifier database 70 comprise or are stored in one or more data warehouses. Data warehouses are typically structured as either relational databases or multidimensional data cubes. This section describes relational databases and multidimensional data cube architectures that can be used to store training data, candidate molecular marker lists, patient molecular marker data and/or classifiers of the present invention. More information on relational databases and multidimensional data cubes is found in Berson and Smith, 1997, *Data Warehousing, Data Mining and OLAP*, McGraw-Hill, New York; Freeze, 2000, *Unlocking OLAP with Microsoft SQL Server and Excel 2000*, IDG Books Worldwide, Inc., Foster City, California; and Thomson, 1997, *OLAP Solutions: Building Multidimensional Information Systems*, Wiley Computer Publishing, New York.

5.9.1   DATA ORGANIZATION

Databases have typically been used for operational purposes, such as order entry, accounting and inventory control. More recently, corporations and scientific projects have been building databases, called data warehouses or large on-line analytical processing (OLAP) databases, explicitly for the purposes of exploration and analysis. The "data warehouse" can be described as a subject-oriented, integrated, time-variant, nonvolatile collection of data in support of management decisions. Data warehouses are built using both relational databases and specialized multidimensional structures called data cubes. In some embodiments a database stored in computer 10 or stored in a computer addressable by computer 10 across wide area network 34 is a relational database or a datacube.

5.9.2   RELATIONAL DATABASES

Relational databases organize data into tables where each row corresponds to a basic entity or fact and each column represents a property of that entity. For example, a table can represent transactions in a bank, where each row corresponds to a single transaction, and each transaction has multiple attributes, such as the transaction amount, the account balance, the bank branch, and the customer. The relational table is referred to as a relation, a row as a tuple, and a column as an attribute or field. The attributes within a relation can be partitioned into two types: dimensions and measures. Dimensions and

measures are similar to independent and dependent variables in traditional analysis. For example, the bank branch and the customer would be dimensions, while the account balance would be a measure. A single relational database will often describe many heterogeneous but interrelated entities. For example, a database designed for a restaurant chain might maintain information about employees, products, and sales. The database schema defines the relations in a database, the relationships between those relations, and how the relations classify the entities of interest.

5.9.3   DATA CUBES

A data warehouse can be constructed as a relational database using either a star or snowflake schema and will provide a conceptual classifier of a multidimensional data set. Each axis in the corresponding data cube represents a dimension in a relational schema and consists of every possible value for that dimension. For example, an axis corresponding to states would have fifty values, one for each state. Each cell in the data cube corresponds to a unique combination of values for the dimensions. For instance, if there are two imensions, "state" and "product", then there would be a cell for every unique combination of the two, e.g., one cell each for (California, Tea), (California, Coffee), (Florida, Tea), (Florida, Coffee), etc. Each cell contains one value per measure of the data cube. So if product production and consumption information is needed, then each cell would contain two values, one for the number of products of each type consumed in that state, and one for the number of products of each type produced in that state. Dimensions within a data warehouse are often augmented with a hierarchical structure. If each dimension has a hierarchical structure, then the data warehouse is not a single data cube but rather a lattice of data cubes.

5.10   EXEMPLARY PATIENT DATABASE

This section provides a more detailed description of a patient database 68 in accordance with one aspect of the invention. As described in Section 5.1, an exemplary patient database 68 includes a plurality of patient records 500 (Fig. 6). There is no limit on the number of patient records 500 that can be held in patient database 68. Database 68 can hold as few as one patient record 500. More typically, database 68 holds between 1 and 100 patient records, more than 100 patient records, more than a thousand patient records, more than ten thousand patient records, more than 100 thousand patient records, between 1 patient record and one million patient records, or more. Each patient record 500 preferably includes a patient identifier 502. As those skilled in database arts will appreciate, a patient

identifier 502 need not be explicitly enumerated in certain database systems. For instance, in some systems, a patient identifier 502 can simply be a patient record 500 identifier. However, in some embodiments, a patient identifier 502 can be a number that uniquely identifies a patient within a health care program or clinical trial.

5   An advantage of database 68 is that it has the capability of tracking molecular marker data profile 504 and trait characterization information 510 for each patient registered in database 68. In some embodiments, a molecular profile 504 is the abundance levels of a plurality of molecular marker products in blood specimens obtained from a patient in accordance with Section 5.2. hi some embodiments, such abundance levels are
10   normalized using any of the techniques disclosed in Section 5.7.

          In some embodiments, a molecular profile 504 comprises the processed microarray image data from the biological specimen obtained from the patient. In one example, molecular profile data 504 comprises molecular marker abundance information for all or a portion of the cellular constituents represented in a microarray, optional background signal
15   information, and optional associated annotation information describing the probes used for the respective molecular marker. Molecular markers include, but are not limited to RNA (e.g., mRNA) and protein.

          In some embodiments, a molecular profile 504 represents the transcriptional state of cellular constituents in a biological specimen. However, in other embodiments, a
20   molecular profile 504 can track aspects of the biological state other than or in addition to transcriptional state. Such other aspects of the biological state include, but are not limited to, the translational state, the activity state of cellular constituents in a biological sample. In some embodiments, for example, molecular profile 504 data is, in fact, protein levels for various proteins in the blood taken from the patient. Thus, in some embodiments,
25   molecular profiles 504 comprise amounts or concentrations of the molecular markers in biological specimens obtained in accordance with Section 5.2.

          In one embodiment, the amount of at least one molecular marker that is tracked in a molecular profile 504 comprises abundances of at least one RNA species present in one or more cells in the blood obtained from the patient. Such abundances can be measured by a
30   method comprising contacting a gene transcript array with RNA derived from one or more cells of the biological specimen, or with cDNA derived therefrom. A gene transcript array comprises a surface with attached nucleic acids or nucleic acid mimics. The nucleic acids or nucleic acid mimics are capable of hybridizing with the RNA species or with cDNA derived from the RNA species. In one particular embodiment, the abundance of the RNA

is measured by contacting a gene transcript array with the RNA from one or more cells of the biological specimen, or with nucleic acid derived from the RNA, such that the gene transcript array comprises a positionally addressable surface with attached nucleic acids or nucleic acid mimics, where the nucleic acids or nucleic acid mimics are capable of

5   hybridizing with the RNA species, or with nucleic acid derived from the RNA species.

In some embodiments, a molecular profile 504 can include abundance information or activity information about ten or more molecular markers (e.g., genes or proteins), between ten and one thousand molecular markers, between one thousand and twenty thousand molecular markers, or more than twenty thousand molecular markers.

10   In some embodiments, in addition to or rather than providing abundance information or activity information for molecular markers, a molecular profile 504 tracks polymorphism information. Such polymorphism information includes, but is not limited to, single nucleotide polymorphisms (SNPs), SNP haplotypes, microsatellite markers, restriction fragment length polymorphisms (RFLPs), short tandem repeats, sequence length

15   polymorphisms, DNA methylation, random amplified polymorphic DNA (RAPD), amplified fragment length polymorphisms (AFLP), and "simple sequence repeats." For more information on such polymorphisms, see generally, *The DNA Revolution* by Andrew H. Paterson 1996 (Chapter 2) in: *Genome Mapping in Plants* (ed. Andrew H. Paterson) by Academic Press/R. G. Landis Company, Austin, Tex., 7-21, which is hereby incorporated

20   herein by reference in its entirety

SNPs occur approximately once every 600 base pairs in the genome. See, for example, Kruglyak and Nickerson, 2001, Nature Genetics 27, 235. Alleles making up blocks of such SNPs in close physical proximity are often correlated, resulting in reduced genetic variability and defining a limited number of "SNP haplotypes" each of which

25   reflects descent from a single ancient ancestral chromosome. See Fullerton *et ah*, 2000, Am. J. Hum. Genet. 67, 881. Such haplotype structure is used in some embodiments of the present invention. Patil *et al.* found that a very dense set of SNPs is required to capture all the common haplotype information. See Patil *et al*, 2001, Science 294, 1719-1723. DNA methylation is described in Grunau *et al.*, 2003, Nucleic Acids Res. 31, pp. 75-77.

30   RFLPs are the product of allelic differences between DNA restriction fragments caused by nucleotide sequence variability. As is well known to those of skill in the art, RFLPs are typically detected by extraction of genomic DNA and digestion with a restriction endonuclease. Generally, the resulting fragments are separated according to size and hybridized with a probe; single copy probes are preferred. As a result, restriction

fragments from homologous chromosomes are revealed. Differences in fragment size among alleles represent an RFLP (see, for example, Helentjaris *et ah*, 1985, Plant MoL Bio. 5:109-1 18, and U.S. Pat. No. 5,324,631).

The phrase "random amplified polymorphic DNA" or "RAPD" refers to the

5   amplification product of the distance between DNA sequences homologous to a single oligonucleotide primer appearing on different sites on opposite strands of DNA. Mutations or rearrangements at or between binding sites will result in polymorphisms as detected by the presence or absence of amplification product (see, for example, Welsh and McClelland, 1990, Nucleic Acids Res. 18:7213-7218; Hu and Quiros, 1991, Plant Cell

10   Rep. 10:505-5 11). AFLP technology refers to a process that is designed to generate large numbers of randomly distributed molecular markers (see, for example, European Patent Application No. 0534858 Al).

"Simple sequence repeats" or "SSRs" are di-, tri- or tetra-nucleotide tandem repeats within a genome. The repeat region can vary in length between genotypes while

15   the DNA flanking the repeat is conserved such that the same primers will work in a plurality of genotypes. A polymorphism between two genotypes represents repeats of different lengths between the two flanking conserved DNA sequences (see, for example, Akagi *et al*, 1996, Theor. Appl. Genet. 93, 1071-1077; Bligh *etal*, 1995, Euphytica 86:83-85; Struss *et al*, 1998, Theor. Appl. Genet. 97, 308-315; Wu *et al*, 1993, MoL Gen.

20   Genet. 241, 225-235; and U.S. Pat. No. 5,075,217). SSR are also known as satellites or microsatellites.

In addition to molecular profiles 50, patient records 500 include trait characterizations 5 10. In some embodiments, a trait characterization 510 comprises observations made by a patient's physician. In some instances, the observations made by a

25   physician include a code from the International Classification of Diseases, 9th Revision, prepared by the Department of Health and Human Services (ICD-9 codes), or an equivalent, and dates such observations were made.

5.11   EXEMPLARY GENES AS CANDIDATE MOLECULAR MARKERS

Non-limiting examples of genes useful as molecular markers for use in the

30   invention can include, but are not limited to, genes specific for or involved in a particular biological process, such as apoptosis, differentiation, stress response, aging, proliferation, etc.; cellular mechanism genes, e.g., cell-cycle, signal transduction, metabolism of toxic compounds, and the like; disease associated genes, e.g., genes involved in cancer, schizophrenia, diabetes, high blood pressure, atherosclerosis, viral-host interaction and

infection and the like. Exemplary genes can also include immune responsive genes. Further examples of genes can include, but are not limited to, oncogenes whose expression within a cell induces that cell to become converted from a normal cell into a tumor cell. See for example Hanahan & Weinberg, 2000, Cell 100:57; Yokota., 2000, Carcinogenesis

5   2 1:497. Further examples of genes can include, but are not limited to cytokine genes. See, for example, Rubinstein *et al*, 1998, Cytokine Growth Factor Rev. 9:175-81. Other examples of genes can include idiotype protein genes *(e.g.,* Benezra., *et al*, 2001 Oncogene 20:8334-41; Norton, 2000, J. Cell Sci. 113:3897), prion genes *(e.g.,* Prusiner *et al*, 1998, Cell 93:337-48; Safar & Prusiner, 1998, Prog. Brain Res. 117:421); genes that

10   express molecules that induce angiogenesis *(e.g.,* Gould & Wagner, 2002, Hum. Pathol. 33:1061); genes encoding adhesion molecules *(e.g.,* Chothia, & Jones, 1997, Annu. Rev. Biochem. 66:823; Parise *et al*, 2000, Semin. Cancer Biol. 10:407-14); genes encoding cell surface receptors *(e.g.,* Deller and Jones, 2000, Curr. Opin. Struct. Biol. 10:213); genes of proteins that are involved in metastasizing and/or invasive processes *(e.g.,* Boyd, 1996,

15   Cancer Metastasis Rev. 15:77; Yokota, 2000, Carcinogenesis 21:497); genes of proteases as well as of molecules that regulate apoptosis and the cell cycle *(e.g.,* Matrisian, 1999, Curr. Biol. 9:R776; Krepela, 2001, Neoplasma 48:332; Basbaum and Werb, 1996, Curr. Opin. Cell Biol. 8:731; Birkedal-Hansen *et al*, 1993, Crit. Rev. Oral Biol. Med. 4:197-250; Mignatti and Rifkin, 1993, Physiol. Rev. 73:161; Stetler-Stevenson *et al.,* 1993,

20   Annu. Rev. Cell Biol. 9:541; Brinkerhoff and Matrisan, 2002, Nature Reviews 3:207; Strasser. *et al*, 2000, Annu. Rev. Biochem. 69:217; Chao and Korsmeyer, 1998, Annu. Rev. Immunol. 16:395; Mullauer *et al*, 2001, Mutat. Res. 488:21 1; Fotedar *et al*, 1996, Prog. Cell Cycle Res. 2:147; Reed., 2000, Am. J. Pathol. 157:1415; D'Ari, 2001, Bioassays 23:563); or multi-drug resistance genes, such as the MDR1 gene. In one embodiment, a

25   gene is an immune response gene or a non-immune response gene such as cytokines *(e.g.,* interleukins and interferons such as TNF-alpha, IL-10, IL-12, IL-2, IL-4, IL-10, IL-12, IL-13, TGF-Beta, IFN-gamma; immunoglobulins, complement and the like). See, for example, Bellardelli, 1995, *Role of interferons and other cytokines in the regulation of the immune response* APMIS 103: 161.

30   **5.12   CLUSTERING TECHNIQUES**

In some embodiments, clustering is used. For instance, clustering can be used in step 204 to visualize the relationship between the data measured for a plurality of molecular markers in step 202. In some embodiments, any of the clustering techniques described in Draghici, *Data Analysis Tools For DNA Microarrays,* 2003, Chapman &

Hall, CRC Press, New York, pp. 263-297, which is hereby incorporated by reference in its entirety, are used in the present invnetion. Clustering is also described on pages 2 11-256 of Duda and Hart, *Pattern Classification and Scene Analysis,* 1973, John Wiley & Sons, Inc., New York, which is hereby incorporated by reference. As described in Section 6.7 of

5   Duda, the clustering problem is described as one of finding natural groupings in a dataset. To identify natural groupings, two issues are addressed. First, a way to measure similarity (or dissimilarity) between two samples is determined. This metric (similarity measure) is used to ensure that the samples in one cluster are more like one another than they are to samples in other clusters. Second, a mechanism for partitioning the data into clusters

10   using the similarity measure is determined.

        Similarity measures are discussed in Section 6.7 of Duda, where it is stated that one way to begin a clustering investigation is to define a distance function and to compute the matrix of distances between all pairs of samples in a dataset. If distance is a good measure of similarity, then the distance between samples in the same cluster will be significantly

15   less than the distance between samples in different clusters. However, as stated on page 215 of Duda, clustering does not require the use of a distance metric. For example, a nonmetric similarity function $s(x, x')$ can be used to compare two vectors x and x'. Conventionally, $s(x, x')$ is a symmetric function whose value is large when x and x' are somehow "similar". An example of a nonmetric similarity function $s(x, x')$ is provided on

20   page 216 of Duda.

        Once a method for measuring "similarity" or "disimilarity" between points in a dataset has been selected, clustering requires a criterion function that measures the clustering quality of any partition of the data. Partitions of the data set that extremize the criterion function are used to cluster the data. See page 217 of Duda. Criterion functions

25   are discussed in Section 6.8 of Duda.

        More recently, Duda et al., Pattern Classification, 2nd edition, John Wiley & Sons, Inc. New York, has been published. Pages 537-563 describe clustering in detail. More information on clustering techniques can be found in Kaufman and Rousseeuw, 1990, *Finding Groups in Data: An Introduction to Cluster Analysis,* Wiley, New York, NY;

30   Everitt, 1993, *Cluster analysis* (3d ed.), Wiley, New York, NY; and Backer, 1995, *Computer-Assisted Reasoning in Cluster Analysis,* Prentice Hall, Upper Saddle River, New Jersey. Now that an overview of clustering techniques has been given, more specific examples of clustering that can be performed in the methods described in Section 5.1 is presented.

5.12.1 HIERARCHICAL CLUSTERING TECHNIQUES

Hierarchical cluster analysis is a statistical method for finding relatively homogenous clusters of elements based on measured data. Consider a sequence of partitions of n samples into c clusters. The first of these is a partition into n clusters, each

5   cluster containing exactly one sample. The next is a partition into n 1 clusters, the next is partition into n-2, and so on until the nth, in which all the samples form one cluster. Level k in the sequence of partitions occurs when c = n - k + 1. Thus, level one corresponds to n clusters and level n corresponds to one cluster. Given any two samples x and x*, at some level they will be grouped together in the same cluster. If the sequence has the property

10   that whenever two samples are in the same cluster at level k they remain together at all higher levels, then the sequence is said to be a hierarchical clustering. Duda et al., 2001, Pattern Classification, 2nd edition, John Wiley & Sons, New York, 2001: 551. Examples of hierarchical clustering includes agglomerative clustering using nearest-neighbor algorithm, farthest-neighbor algorithm, the average linkage algorithm, the centroid

15   algorithm, or the sum-of-squares algorithm. See, for example WO03 100557.

5.12.1.1   CLUSTERING WITH PEARSON CORRELATION
COEFFICIENTS

In some embodiments of the present invention, molecular marker data data is clustered using agglomerative hierarchical clustering with Pearson correlation coefficients.

20   In this form of clustering, similarity is determined using Pearson correlation coefficients between sets of molecular marker data measurements. Other metrics that can be used, in addition to the Pearson correlation coefficient, include but are not limited to, a Euclidean distance, a squared Euclidean distance, a Euclidean sum of squares, a Manhattan metric, and a squared Pearson correlation coefficient. Such metrics can be computed using SAS

25   (Statistics Analysis Systems Institute, Gary, North Carolina) or S-Plus (Statistical Sciences, Inc., Seattle, Washington).

5.12.1.2   DIVISIVE CLUSTERING

In some embodiments, the hierarchical clustering technique used to cluster molecular marker data measurements is a divisive clustering procedure. Divisive (top-

30   down clustering) procedures start with all of the samples in one cluster and form the sequence by successfully splitting clusters. Divisive clustering techniques are classified as either a polymeric or a monothetic method. A polythetic approach divides clusters into arbitrary subsets.

5.12.2 K-MEANS CLUSTERING

In k-means clustering, sets of molecular marker data measurements are randomly assigned to K user specified clusters. The centroid of each cluster is computed by averaging the value of the vectors in each cluster. Then, for each i= 1, ..., N, the distance between vector x_i and each of the cluster centroids is computed. Each vector x; is then reassigned to the cluster with the closest centroid. Next, the centroid of each affected cluster is recalculated. The process iterates until no more reassignments are made. See, for example, Duda *et ah*, 2001, *Pattern Classification,* John Wiley & Sons, New York, NY, pp. 526-528. A related approach is the fuzzy k-means clustering algorithm, which is also known as the fuzzy c-means algorithm, hi the fuzzy k-means clustering algorithm, the assumption that every set of molecular marker data measurements is in exactly one cluster at any given time is relaxed so that every set has some graded or "fuzzy" membership in a cluster. See Duda *et ah*, 2001, *Pattern Classification,* John Wiley & Sons, New York, NY, pp. 528-530.

5.12.3 JARVIS-PATRICK CLUSTERING

Jarvis-Patrick clustering is a nearest-neighbor non-hierarchical clustering method in which a set of objects is partitioned into clusters on the basis of the number of shared nearest-neighbors. In the standard implementation advocated by Jarvis and Patrick, 1973, *IEEE Trans. Comput,* C-22:1025-1 034, a preprocessing stage identifies the K nearest-neighbors of each object in the dataset. In the subsequent clustering stage, two objects i and j join the same cluster if (i) i is one of the K nearest-neighbors of j, (ii) j is one of the K nearest-neighbors of i, and (iii) i and j have at least k_{min} of their K nearest-neighbors in common, where K and k_{min} are user-defined parameters. The method has been widely applied to clustering chemical structures on the basis of fragment descriptors and has the advantage of being much less computationally demanding than hierarchical methods, and thus more suitable for large databases. Jarvis-Patrick clustering can be performed using the Jarvis-Patrick Clustering Package 3.0 (Barnard Chemical Information, Ltd., Sheffield, United Kingdom).

5.13   MOLECULAR MARKERS

Molecular marker is used herein to mean a gene or genetic element. All genes and genetic elements are considered molecular markers, but the invention teaches how to identify molecular markers useful for diagnosing a trait of interest.

5.14   REPRESENTATIVE MATHEMATICAL MODELS THAT CAN BE USED TO BUILD CLASSIFIERS

This section describes various mathematical models that can be used to build classifier in accordance with the methods of the present invention.

5.14.1 REGRESSION CLASSIFIERS

In some embodiments, the classifier constructed in step 216 is a regression classifier, preferably a logistic regression classifier. Such a regression classifier includes a coefficient for each of the molecular markers selected in the last instance of step 214. In such embodiments, the coefficients for the regression classifier are computed using, for example, a maximum likelihood approach. In such a computation, the data measured for the molecular markers in step 206 (e.g., RT-PCR data) is used. In particular embodiments, molecular marker data from only two trait subgroups is used and the dependent variable is absence or presence of a particular trait in the subjects for which molecular marker data is available. As in the case of step 210, the two different trait subgroups can, for example, respectively represent a diseased and nondiseased state, a first diseased state (e.g. liver cancer) and a second phenotypically similar (e.g. hepatitis B) or unrelated diseased state (e.g., Alzheimer's disease), those subjects that are responsive to drug therapy and those subjects that are not responsive to drug therapy, or subjects that have been subjected to a perturbation (e.g., drug treatment) versus those subjects that have not been subjected to a perturbation.

In another specific embodiment, training population 44 consists of a plurality of trait subgroups (e.g., three or more trait subgroups, four or more specific trait subgroups, etc.). In this specific embodiment, a generalization of the logistic regression model that handles multicategory responses can be used in step 216 to develop a classifier that discriminates between the various trait subgroups found in the training population. For example, measured data for selected molecular markers can be applied to any of the mulitcategory logit models described in Agresti, *An Introduction to Categorical Data Analysis,* 1996, John Wiley & Sons, Inc., New York, Chapter 8, which is hereby incorporated herein by reference in its entirety, in order to develop a classifier capable of discriminating between any of a plurality of trait subgroups represented in a training population.

5.14.2 NEURAL NETWORKS

The present invention is not limited to the use of logistic regression. In some embodiments, the data measured for the molecular markers in step 206 (e.g., RT-PCR data) can be used to train a neural network.

5   In some embodiments, a neural network is derived in each successive instance of step 216 of Fig. 2A using the combination of molecular markers selected in the corresponding instance of step 214 of Fig. 2A. A neural network is a two-stage regression or classification classifier. A neural network has a layered structure that includes a layer of input units (and the bias) connected by a layer of weights to a layer of output units. For

10   regression, the layer of output units typically includes just one output unit. However, neural networks can handle multiple quantitative responses in a seamless fashion.

In multilayer neural networks, there are input units (input layer), hidden units (hidden layer), and output units (output layer). There is, furthermore, a single bias unit that is connected to each unit other than the input units. Neural networks are described in

15   Duda et ah, 2001, Pattern Classification, Second Edition, John Wiley & Sons, Inc., New York; and Hastie et ah, 2001, The Elements of Statistical Learning, Springer-Verlag, New York.

The basic approach to the use of neural networks is to start with an untrained network, present a training pattern to the input layer, and to pass signals through the net

20   and determine the output at the output layer. These outputs are then compared to the target values; any difference corresponds to an error. This error or criterion function is some scalar function of the weights and is minimized when the network outputs match the desired outputs. Thus, the weights are adjusted to reduce this measure of error. For regression, this error can be sum-of-squared errors. For classification, this error can be

25   either squared error or cross-entropy (deviation). See, e.g., Hastie et al, 2001, The Elements of Statistical Learning, Springer-Verlag, New York.

Three commonly used training protocols are stochastic, batch, and on-line. In stochastic training, patterns are chosen randomly from the training set and the network weights are updated for each pattern presentation. Multilayer nonlinear networks trained

30   by gradient descent methods such as stochastic back-propagation perform a maximum-likelihood estimation of the weight values in the classifier defined by the network topology. In batch training, all patterns are presented to the network before learning takes place. Typically, in batch training, several passes are made through the training data. In online training, each pattern is presented once and only once to the net.

In some embodiments, consideration is given to starting values for weights. If the weights are near zero, then the operative part of the sigmoid commonly used in the hidden layer of a neural network (see, *e.g.,* Hastie *et ah,* 2001, *The Elements of Statistical Learning,* Springer-Verlag, New York) is roughly linear, and hence the neural network

5   collapses into an approximately linear classifier. In some embodiments, starting values for weights are chosen to be random values near zero. Hence the classifier starts out nearly linear, and becomes nonlinear as the weights increase. Individual units localize to directions and introduce nonlinearities where needed. Use of exact zero weights leads to zero derivatives and perfect symmetry, and the algorithm never moves. Alternatively,

10   starting with large weights often leads to poor solutions.

Since the scaling of inputs determines the effective scaling of weights in the bottom layer, it can have a large effect on the quality of the final solution. Thus, in some embodiments, at the outset all expression values are standardized to have mean zero and a standard deviation of one. This ensures all inputs are treated equally in the regularization

15   process, and allows one to choose a meaningful range for the random starting weights. With standardization inputs, it is typical to take random uniform weights over the range [-0.7, +0.7].

A recurrent problem in the use of three-layer networks is the optimal number of hidden units to use in the network. The number of inputs and outputs of a three-layer

20   network are determined by the problem to be solved. In embodiments of the present invention, the number of inputs for a given neural network can, in some embodiments, equal the number of molecular markers selected in the corresponding instance of step 214. In other embodiments, for each input, two or more molecular markers will be selected (for example wherein ratios of genes (A/B) are utilized. The number of outputs for the neural

25   network will typically be just one (ie wherein the ouput neuron is one dimensional e.g. health vs. disease). If there are additional input dimensions, new additional output neurons may be created. In some embodiments more than one output is used so that more than just two states can be defined by the network. If too many hidden units are used in a neural network, the network will have too many degrees of freedom and is trained too long, there

30   is a danger that the network will overfit the data. If there are too few hidden units, the training set cannot be learned. Generally speaking, however, it is better to have too many hidden units than too few. With too few hidden units, the classifier might not have enough flexibility to capture the nonlinearities in the data; with too many hidden units, the extra weight can be shrunk towards zero if appropriate regularization or pruning, as described

below, is used. In typical embodiments, the number of hidden units in somewhere in the range of 5 to 100, with the number increasing with the number of inputs and number of training cases.

5   One general approach to determining the number of hidden units to use is to apply a regularization approach. La the regularization approach, a new criterion function is constructed that depends not only on the classical training error, but also on classifier complexity. Specifically, the new criterion function penalizes highly complex classifiers; searching for the minimum in this criterion is to balance error on the training set with error on the training set plus a regularization term, which expresses constraints or desirable

10   properties of solutions:

$$J = J_{pat} + \lambda J_{reg}.$$

The parameter λ is adjusted to impose the regularization more or less strongly. In other words, larger values for λ will tend to shrink weights towards zero: typically cross-validation with a validation set is used to estimate λ. This validation set can be obtained by

15   setting aside a random subset of the population measured in step 202 of Fig. 2A. Other forms of penalty have been proposed, for example the weight elimination penalty (see, e.g., Hastie et al, 2001, *The Elements of Statistical Learning*, Springer-Verlag, New York).

Another approach to determine the number of hidden units to use is to eliminate -

20   prune - weights that are least needed. In one approach, the weights with the smallest magnitude are eliminated (set to zero). Such magnitude-based pruning can work, but is nonoptimal; sometimes weights with small magnitudes are important for learning and training data. In some embodiments, rather than using a magnitude-based pruning approach, Wald statistics are computed. The fundamental idea in Wald Statistics is that

25   they can be used to estimate the importance of a hidden unit (weight) in a classifier. Then, hidden units having the least importance are eliminated (by setting their input and output weights to zero). Two algorithms in this regard are the *Optimal Brain Damage* (OBD) and the *Optimal Brain Surgeon* (OBS) algorithms that use second-order approximation to predict how the training error depends upon a weight, and eliminate the weight that leads

30   to the smallest increase in training error.

Optimal Brain Damage and Optimal Brain Surgeon share the same basic approach of training a network to local minimum error at weight w, and then pruning a weight that leads to the smallest increase in the training error. The predicted functional increase in the error for a change in full weight vector δw is:

$$\delta J = \left(\frac{\partial J}{\partial w}\right)^t \cdot \delta w + \frac{1}{2}\delta w^t \cdot \frac{\partial^2 J}{\partial w^2} \cdot \delta w + O\left(\|\delta w\|^3\right)$$

where $\frac{\partial^2 J}{dw^2}$ is the Hessian matrix. The first term vanishes because we are at a local minimum in error; third and higher order terms are ignored. The general solution for minimizing this function given the constraint of deleting one weight is:

$$\delta w = -\frac{w_q}{\left[\mathbf{H}^{-1}\right]_{qq}}\mathbf{H}^{-1}\cdot u_q \quad \text{and} \quad L_q = \frac{1}{2}-\frac{w_q^2}{\left[\mathbf{H}^{-1}\right]_{qq}}$$

Here, u_q is the unit vector along the qth direction in weight space and L_q is approximation to the saliency of the weight q - the increase in training error if weight q is pruned and the other weights updated δw. These equations require the inverse of H. One method to calculate this inverse matrix is to start with a small value, $H_0^{-1} = \alpha^{-1}I$, where α is a small parameter - effectively a weight constant. Next the matrix is updated with each pattern according to

$$\mathbf{H}_{m+1}^{-1} = \mathbf{H}_m^{-1} - \frac{\mathbf{H}_m^{-1}\mathbf{X}_{m+1}\mathbf{X}_{m+1}^T\mathbf{H}_m^{-1}}{\dfrac{n}{a_m}+\mathbf{X}_{m+1}^T\mathbf{H}_m^{-1}\mathbf{X}_{m+1}} \qquad \text{Eqn. 1}$$

where the subscripts correspond to the pattern being presented and a_m decreases with m. After the full training set has been presented, the inverse Hessian matrix is given by $H^{-1} = H_n^{-1}$. In algorithmic form, the Optimal Brain Surgeon method is:
    ' begin initialize Π_H, W, θ

train a reasonably large network to minimum error

do compute H^{-1} by Eqn. 1

$$q^\bullet \leftarrow \arg\min_q \ w_q^2/(2\left[H^{-1}\right]_{qq}) \quad \text{(saliency } L_q\text{)}$$

$$w \leftarrow w - \frac{w_{q^\bullet}}{\left[H^{-1}\right]_{q^\bullet q^\bullet}}H^{-1}e_{q^\bullet} \quad \text{(saliency } L_q\text{)}$$

until $J(w) > \theta$

return w

end

The Optimal Brain Damage method is computationally simpler because the calculation of the inverse Hessian matrix in line 3 is particularly simple for a diagonal matrix. The above algorithm terminates when the error is greater than a criterion initialized to be θ. Another approach is to change line 6 to terminate when the change in $J(w)$ due to elimination of a weight is greater than some criterion value.

In some embodiments, the back-propagation neural network (see, for example Abdi, 1994, "A neural network primer", J. Biol System. 2, 247-283) containing a single bidden layer often neurons (ten hidden units) found in EasyNN-Plus version 4.Og software package (Neural Planner Software Inc.) is used. In one specific example, parameter values within the EasyNN-Plus program were set as follows: learning parameter = 0.6, and momentum parameter = 0.8. In some embodiments in which the EasyNN-Plus version 4.Og software package is used, "outlier" samples are identified by performing twenty independently-seeded trials involving 20,000 learning cycles each.

5.14.3 CLUSTERING

In some embodiments, the expression values for select genes are used to cluster a training set. For example, consider the case in which ten genes are used. Each member m of the training population will have expression values for each of the ten genes. Such values from a member m in the training population define the vector:

X_{1m}	X_{2m}	X_{3m}	X_{4m}	X_{5m}	X_{6m}	X_{7m}	X_{8m}	X_{9m}	X_{10m}

where Xj_m is the expression level of the ith gene in organism m. If there are m organisms in the training set, selection of i genes will define m vectors. Note that the methods of the present invention do not require that each expression value of every single gene used in the vectors be represented in every single vector m. In other words, data from a subject in which one of the ith genes is not found can still be used for clustering. In such instances, the missing expression value is assigned either a "zero" or some other normalized value. In some embodiments, prior to clustering, the gene expression values are normalized to have a mean value of zero and unit variance.

Those members of the training population that exhibit similar expression patterns across the training group will tend to cluster together. A particular combination of genes of the present invention is considered to be a good classifier in this aspect of the invention when the vectors cluster into the trait groups found in the training population. For instance, if the training population includes patients with no osteoarthritis, mild

osteoarthritis, moderate osteoarthritis, marked osteoarthritis, and severe osteoarthritis an ideal clustering classifier will cluster the population into five groups, with each group uniquely representing either absence or one of the four stages of osteoarthritis. In some embodiments, the clustering classifier simply clusters the population into a first subgroup

5 (a first cluster) that does not have osteoarthritis and a second subgroup (a second cluster) that has osteoarthritis. In some embodiments, the classifier clusters the data into a first subgroup that has a particular stage of osteoarthritis (e.g., mild) and two or more subgroups that do not include subjects having the particular stage of osteoarthritis represented in the first subgroup.

10   Clustering is described on pages 211-256 of Duda and Hart, *Pattern Classification and Scene Analysis,* 1973, John Wiley & Sons, Inc., New York. As described in Section 6.7 of Duda, the clustering problem is described as one of finding natural groupings in a dataset. To identify natural groupings, two issues are addressed. First, a way to measure similarity (or dissimilarity) between two samples is determined. This metric (similarity

15 measure) is used to ensure that the samples in one cluster are more like one another than they are to samples in other clusters. Second, a mechanism for partitioning the data into clusters using the similarity measure is determined.

       Similarity measures are discussed in Section 6.7 of Duda, where it is stated that one way to begin a clustering investigation is to define a distance function and to compute the

20 matrix of distances between all pairs of samples in a dataset. If distance is a good measure of similarity, then the distance between samples in the same cluster will be significantly less than the distance between samples in different clusters. However, as stated on page 215 of Duda, clustering does not require the use of a distance metric. For example, a nonmetric similarity function $s(x, x')$ can be used to compare two vectors x and x'.

25 Conventionally, $s(x, x')$ is a symmetric function whose value is large when x and x' are somehow "similar". An example of a nonmetric similarity function $s(x, x')$ is provided on page 216 of Duda.

       Once a method for measuring "similarity" or "dissimilarity" between points in a dataset has been selected, clustering requires a criterion function that measures the

30 clustering quality of any partition of the data. Partitions of the data set that extremize the criterion function are used to cluster the data. See page 217 of Duda. Criterion functions are discussed in Section 6.8 of Duda.

       More recently, Duda *et ah,* Pattern Classification, 2nd edition, John Wiley & Sons, Inc. New York, has been published. Pages 537-563 describe clustering in detail. More

information on clustering techniques can be found in Kaufman and Rousseeuw, 1990, *Finding Groups in Data: An Introduction to Cluster Analysis,* Wiley, New York, NY; Everitt, 1993, *Cluster analysis* (3d ed.), Wiley, New York, NY; and Backer, 1995, *Computer-Assisted Reasoning in Cluster Analysis,* Prentice Hall, Upper Saddle River, New

5   Jersey. Particular exemplary clustering techniques that can be used in the present invention include, but are not limited to, hierarchical clustering (agglomerative clustering using nearest-neighbor algorithm, farthest-neighbor algorithm, the average linkage algorithm, the centroid algorithm, or the sum-of-squares algorithm), k-means clustering, fuzzy k-means clustering algorithm, and Jarvis-Patrick clustering.

10   **5.14.4 PRINCIPAL COMPONENT ANALYSIS**

        Principal component analysis (PCA) has been proposed to analyze gene expression data. Principal component analysis is a classical technique to reduce the dimensionality of a data set by transforming the data to a new set of variable (principal components) that summarize the features of the data. See, for example, Jolliffe, 1986, *Principal Component*

15   *Analysis,* Springer, New York. Principal components (PCs) are uncorrelate and are ordered such that the kth PC has the Mi largest variance among PCs. The kth PC can be interpreted as the direction that maximizes the variation of the projections of the data points such that it is orthogonal to the first $k - 1$ PCs. The first few PCs capture most of the variation in the data set. In contrast, the last few PCs are often assumed to capture only

20   the residual 'noise' in the data.

        PCA can also be used to create a classifier in accordance with the present invention. In such an approach, vectors for the select genes described in the present invention can be constructed in the same manner described for clustering above. In fact, the set of vectors, where each vector represents the expression values for the select genes

25   from a particular member of the training population, can be considered a matrix. In some embodiments, this matrix is represented in a Free-Wilson method of qualitative binary description of monomers (Kubinyi, 1990, *3D QSAR in drug design theory methods and applications,* Pergamon Press, Oxford, pp 589-638), and distributed in a maximally compressed space using PCA so that the first principal component (PC) captures the

30   largest amount of variance information possible, the second principal component (PC) captures the second largest amount of all variance information, and so forth until all variance information in the matrix has been accounted for.

        Then, each of the vectors (where each vector represents a member of the training population) is plotted. Many different types of plots are possible. In some embodiments, a

136

one-dimensional plot is made. In this one-dimensional plot, the value for the first principal component from each of the members of the training population is plotted. In this form of plot, the expectation is that members of a first subgroup (e.g. those subjects that do not have osteoarthritis) will cluster in one range of first principal component values and

5   members of a second subgroup *(e.g., those subjects that have osteoarthritis)* will cluster in a second range of first principal component values.

In one ideal example, the training population comprises two subgroups: "control" and "patients with osteoarthritis." The first principal component is computed using the molecular marker expression values for the select genes of the present invention across the

10   entire training population data set. Then, each member of the training set is plotted as a function of the value for the first principal component. In this ideal example, those members of the training population in which the first principal component is positive are the "responders" and those members of the training population in which the first principal component is negative are "patients with osteoarthritis."

15   In some embodiments, the members of the training population are plotted against more than one principal component. For example, in some embodiments, the members of the training population are plotted on a two-dimensional plot in which the first dimension is the first principal component and the second dimension is the second principal component. In such a two-dimensional plot, the expectation is that members of each

20   subgroup represented in the training population will cluster into discrete groups. For example, a first cluster of members in the two-dimensional plot will represent subjects with mild osteoarthritis, a second cluster of members in the two-dimensional plot will represent subjects with moderate osteoarthritis, and so forth.

In some embodiments, the members of the training population are plotted against

25   more than two principal components and a determination is made as to whether the members of the training population are clustering into groups that each uniquely represents a subgroup found in the training population. In some embodiments, principal component analysis is performed by using the *R mva* package (Anderson, 1973, *Cluster Analysis for applications,* Academic Press, New York 1973; Gordon, *Classification,* Second Edition,

30   Chapman and Hall, CRC, 1999.). Principal component analysis is further described in Duda, *Pattern Classification,* Second Edition, 2001, John Wiley & Sons, Inc.

5.14.5 NEAREST NEIGHBOR CLASSIFIER ANALYSIS

Nearest neighbor classifiers are memory-based and require no classifier to be fit. Given a query point x_0, the k training points $x_{(r)}$, r, ..., k closest in distance to x_0 are

identified and then the point X_0 is classified using the k nearest neighbors. Ties can be broken at random. In some embodiments, Euclidean distance in feature space is used to determine distance as:

$$d_{(0} = \| \vec{x}_{(0} - \vec{x}_0 \|$$

5   Typically, when the nearest neighbor algorithm is used, the expression data used to compute the linear discriminant is standardized to have mean zero and variance 1. In the present invention, the members of the training population are randomly divided into a training set and a test set. For example, in one embodiment, two thirds of the members of the training population are placed in the training set and one third of the members of the

10   training population are placed in the test set. A select combination of genes described in the present invention represents the feature space into which members of the test set are plotted. Next, the ability of the training set to correctly characterize the members of the test set is computed. In some embodiments, nearest neighbor computation is performed several times for a given combination of genes of the present invention. In each iteration

15   of the computation, the members of the training population are randomly assigned to the training set and the test set. Then, the quality of the combination of genes is taken as the average of each such iteration of the nearest neighbor computation.

The nearest neighbor rule can be refined to deal with issues of unequal class priors, differential misclassification costs, and feature selection. Many of these refinements

20   involve some form of weighted voting for the neighbors. For more information on nearest neighbor analysis, see Duda, *Pattern Classification,* Second Edition, 2001, John Wiley & Sons, Inc; and Hastie, 2001, *The Elements of Statistical Learning,* Springer, New York.

5.14.6 LINEAR DISCRIMINANT ANALYSIS

Linear discriminant analysis (LDA) attempts to classify a subject into one of two

25   categories based on certain object properties. In other words, LDA tests whether object attributes measured in an experiment predict categorization of the objects. LDA typically requires continuous independent variables and a dichotomous categorical dependent variable. In the present invention, the expression values for the select combinations of genes described in the present invention across a subset of the training population serve as

30   the requisite continuous independent variables. The trait subgroup classification of each of the members of the training population serves as the dichotomous categorical dependent variable.

LDA seeks the linear combination of variables that maximizes the ratio of between-group variance and within-group variance by using the grouping information. Implicitly, the linear weights used by LDA depend on how the expression of a molecular marker across the training set separates in the two groups (e.g., a group that has

5   osteoarthritis and a group that does not have osteoarthritis) and how this gene expression correlates with the expression of other genes. In some embodiments, LDA is applied to the data matrix of the N members in the training sample by K genes in a combination of genes described in the present invention. Then, the linear discriminant of each member of the training population is plotted. Ideally, those members of the training population

10   representing a first subgroup (e.g. those subjects that do not have osteoarthritis) will cluster into one range of linear discriminant values (e.g., negative) and those member of the training population representing a second subgroup (e.g. those subjects that have osteoarthritis) will cluster into a second range of linear discriminant values (e.g., positive). The LDA is considered more successful when the separation between the clusters of

15   discriminant values is larger. For more information on linear discriminant analysis, see Duda, *Pattern Classification*, Second Edition, 2001, John Wiley & Sons, Inc; and Hastie, 2001, *The Elements of Statistical Learning*, Springer, New York; Venables & Ripley, 1997, *Modern Applied Statistics with s-plus*, Springer, New York.

5.14.7 QUADRATIC DISCRIMINANT ANALYSIS

20   Quadratic discriminant analysis (QDA) takes the same input parameters and returns the same results as LDA. QDA uses quadratic equations, rather than linear equations, to produce results. LDA and QDA are interchangeable, and which to use is a matter of preference and/or availability of software to support the analysis. Logistic regression takes the same input parameters and returns the same results as LDA and QDA.

25   ### 5.14.8 SUPPORT VECTOR MACHINES

In some embodiments of the present invention, support vector machines (SVMs) are used to classify subjects using genesor genetic information. SVMs are a relatively new type of learning algorithm. See, for example, Cristianini and Shawe-Taylor, 2000, *An Introduction to Support Vector Machines*, Cambridge University Press, Cambridge, Boser

30   *et al*, 1992, "A training algorithm for optimal margin classifiers, in *Proceedings of the 5th Annual ACM Workshop on Computational Learning Theory*, ACM Press, Pittsburgh, PA, pp. 142-152; Vapnik, 1998, *Statistical Learning Theory*, Wiley, New York. When used for classification, SVMs separate a given set of binary labeled training data with a hyper-

plane that is [a maximal distance from each point using a fitting algorithm. For cases in which no linear separation is possible, SVMs can work in combination with the technique of 'kernels', which automatically realizes a non-linear mapping to a feature space. The hyper-plane found by the SVM in feature space corresponds to a non-linear decision

5   boundary in the input space.

In one approach, when a SVM is used, the gene expression data is standardized to have mean zero and unit variance and the members of a training population are randomly divided into a training set and a test set. For example, in one embodiment, two thirds of the members of the training population are placed in the training set and one third of the

10   members of the training population are placed in the test set. The expression values for a combination of genes is used to train the SVM. Then the ability for the trained SVM to correctly classify members in the test set is determined. In some embodiments, this computation is performed several times for a given combination of molecular markers. In each iteration of the computation, the members of the training population are randomly

15   assigned to the training set and the test set. Then, the quality of the combination of molecular markers is taken as the average of each such iteration of the SVM computation. For more information on SVMs, see Duda, *Pattern Classification*, Second Edition, 2001, John Wiley & Sons, Inc.; Hastie, 2001, *The Elements of Statistical Learning*, Springer, New York; and Furey *et al*, 2000, Bioinformatics 16, 906-914.

20   **5.14.9 DECISION TREES**

In some embodiments of the present invention, decision trees are used to classify subjects using expression data for combinations of genes. Decision tree algorithms belong to the class of supervised learning algorithms. The aim of a decision tree is to induce a classifier (a tree) from real-world example data. This tree can be used to classify unseen

25   examples which have not been used to derive the decision tree.

A decision tree is derived from training data. An example contains values for the different attributes and what class the example belongs. In the present invention, the training data is expression data for a combination of genes across the training population.

The following algorithm describes a decision tree derivation:

30   Tree(Examples,Class, Attributes)

Create a root node

If all Examples have the same Class value, give the root this label

Else if Attributes is empty label the root according to the most common value

Else begin

Calculate the information gain for each attribute

Select the attribute A with highest information gain and make this the root

attribute

For each possible value, v, of this attribute

5   Add a new branch below the root, corresponding to A = v

Let Examples(v) be those examples with A = V

If Examples(v) is empty, make the new branch a leaf node labeled

with the most common value among Examples

Else let the new branch be the tree created by

10   Tree(Examples(v),Class,Attributes - {A})

end

A more detailed description of the calculation of information gain is shown in the

following. If the possible classes v_i of the examples have probabilities P(vj) then the

information content I of the actual answer is given by:

$$I(P(v_1),...,P(v_n)) = \sum_{i=1}^{n} -P(v_i)\log_2 P(v_i)$$

15

The I- value shows how much information we need in order to be able to describe

the outcome of a classification for the specific dataset used. Supposing that the dataset

contains p positive *(e.g.* has osteoarthritis) and n negative *(e.g.* healthy) examples *(e.g.*

individuals), the information contained in a correct answer is:

$$I(\frac{p}{p+n}, \frac{n}{p+n}) = -\frac{p}{p+n}\log_2\frac{p}{p+n} - \frac{n}{p+n}\log_2\frac{n}{p+n}$$

20

where $\log_2$ is the logarithm using base two. By testing single attributes the amount of

information needed to make a correct classification can be reduced. The remainder for a

specific attribute A (e.g. a gene) shows how much the information that is needed can be

reduced.

$$Remainder(A) = \sum_{i=1}^{v} \frac{p_i+n_i}{p+n}I(\frac{p_i}{p_i+n_i}, \frac{n_i}{p_i+n_i})$$

25

"v" is the number of unique attribute values for attribute A in a certain dataset, "i"

is a certain attribute value, "pi" is the number of examples for attribute A where the

classification is positive (e.g. cancer), "n_i" is the number of examples for attribute A where the classification is negative (e.g. healthy).

The information gain of a specific attribute A is calculated as the difference between the information content for the classes and the remainder of attribute A:

$$GainL A) = I(\frac{p}{p+n}, \frac{n}{p+n}) - \text{Re } maind\beta r(A)$$

5

The information gain is used to evaluate how important the different attributes are for the classification (how well they split up the examples), and the attribute with the highest information.

In general there are a number of different decision tree algorithms, many of which
10   are described in Duda, *Pattern Classification*, Second Edition, 2001, John Wiley & Sons, Inc. Decision tree algorithms often require consideration of feature processing, impurity measure, stopping criterion, and pruning. Specific decision tree algorithms include, cut are not limited to classification and regression trees (CART), multivariate decision trees, ID3, and C4.5.

15   In one approach, when a decision tree is used, the gene expression data for a select combination of genes described in the present invention across a training population is standardized to have mean zero and unit variance. The members of the training population are randomly divided into a training set and a test set. For example, in one embodiment, two thirds of the members of the training population are placed in the training set and one
20   third of the members of the training population are placed in the test set. The expression values for a select combination of genes described in the present invention is used to construct the decision tree. Then, the ability for the decision tree to correctly classify members in the test set is determined. In some embodiments, this computation is performed several times for a given combination of molecular markers. In each iteration
25   of the computation, the members of the training population are randomly assigned to the training set and the test set. Then, the quality of the combination of molecular markers is taken as the average of each such iteration of the decision tree computation.

5.14.10   EVOLUTIONARY METHODS

Inspired by the process of biological evolution, evolutionary methods of classifier
30   design employ a stochastic search for an optimal classifier. In broad overview, such methods create several classifiers - a population - from a combination of genes described

in the present invention. Each classifier varies somewhat from the other. Next, the classifiers are scored on expression data across the training population. In keeping with the analogy with biological evolution, the resulting (scalar) score is sometimes called the fitness. The classifiers are ranked according to their score and the best classifiers are

5   retained (some portion of the total population of classifiers). Again, in keeping with biological terminology, this is called survival of the fittest. The classifiers are stochastically altered in the next generation - the children or offspring. Some offspring classifiers will have higher scores than their parent in the previous generation, some will have lower scores. The overall process is then repeated for the subsequent generation: The

10   classifiers are scored and the best ones are retained, randomly altered to give yet another generation, and so on. In part, because of the ranking, each generation has, on average, a slightly higher score than the previous one. The process is halted when the single best classifier in a generation has a score that exceeds a desired criterion value. More information on evolutionary methods is found in, for example, Duda, Pattern

15   Classification, Second Edition, 2001, John Wiley & Sons, Inc.

5.14.11   BAGGING, BOOSTING AND THE RANDOM SUBSPACE METHOD

Bagging, boosting and the random subspace method are combining techniques that

20   can be used to improve weak classifiers. These techniques are designed for, and usually applied to, decision trees. In addition, Skurichina and Duin provide evidence to suggest that such techniques can also be useful in linear discriminant analysis.

In bagging, one samples the training set, generating random independent bootstrap replicates, constructs the classifier on each of these, and aggregates them by a simple

25   majority vote in the final decision rule. See, for example, Breiman, 1996, Machine Learning 24, 123-140; and Efron & Tibshirani, An Introduction to Boostrap, Chapman & Hall, New York, 1993.

In boosting, classifiers are constructed on weighted versions of the training set, which are dependent on previous classification results. Initially, all objects have equal

30   weights, and the first classifier is constructed on this data set. Then, weights are changed according to the performance of the classifier. Erroneously classified objects (molecular markers in the data set) get larger weights, and the next classifier is boosted on the reweighted training set. In this way, a sequence of training sets and classifiers is obtained, which is then combined by simple majority voting or by weighted majority voting in the

final decision. See, for example, Freund & Schapire, "Experiments with a new boosting algorithm," Proceedings 13th International Conference on Machine Learning, 1996, 148-156.

To illustrate boosting, consider the case where there are two trait extremes exhibited by the population under study, extreme phenotype 1 (e.g., severe osteoarthritis), and extreme phenotype 2 (e.g., no osteoarthritis). Given a vector of predictor molecular marker X selected in step 214, a classifier G(X) produces a prediction taking one of the type values in the two value set: {extreme phenotype 1, extreme phenotype 2}. The error rate on the training sample is

$$\overline{err} = \frac{1}{N}\sum_{i=1}^{N} I(y_i \neq G(x_i))$$

where N is the number of subjects in the training set (the sum total of the subjects that have either extreme phenotype 1 or extreme phenotype 2). For example, if there are 49 organisms that have severe osteoarthritis and 72 organisms that have no osteoarthritis under study, N is 121.

A weak classifier is one whose error rate is only slightly better than random guessing. In the boosting algorithm, the weak classification algorithm is repeatedly applied to modified versions of the data, thereby producing a sequence of weak classifiers $G_m(x)$, m, = 1, 2, ..., M. The predictions from all of the classifiers in this sequence are then combined through a weighted majority vote to produce the final prediction:

$$G(x) = sign\left(\sum_{m=1}^{M} \alpha_m G_m(x)\right)$$

Here α_1, α_2, ..., a_M are computed by the boosting algorithm and their purpose is to weigh the contribution of each respective $G_m(x)$. Their effect is to give higher influence to the more accurate classifiers in the sequence.

The data modifications at each boosting step consist of applying weights W_1, W_2, ..., w_n to each of the training observations (xJ, yj), i = 1, 2, ..., N. Initially all the weights are set to w_j = 1/N, so that the first step simply trains the classifier on the data in the usual manner. For each successive iteration m = 2, 3, ..., M the observation weights are individually modified and the classification algorithm is reapplied to the weighted observations. At stem m, those observations that were misclassified by the classifier G_{m-}

i(x) induced at the previous step have their weights increased, whereas the weights are decreased for those that were classified correctly. Thus as iterations proceed, observations that are difficult to correctly classify receive ever-increasing influence. Each successive classifier is thereby forced to concentrate on those training observations that are missed by previous ones in the sequence.

The exemplary boosting algorithm is summarized as follows:

1. Initialize the observation weights $w_j = 1/N$, $i = 1, 2, ..., N$.

2. For m = 1 to M:
(a) Fit a classifier $G_m(x)$ to the training set using weights $w,$.
(b) Compute

$$\text{err}_m = \frac{\sum_{i=1}^{N} w_i I(y_i \neq G_m(x_i))}{\sum_{i=1}^{N} w_i}$$

(c) Compute $\alpha_m = \log((1-\text{err}_m)/\text{err}_m)$.

(d) Set $w, \longleftarrow w, \cdot \exp K \quad -I(y_1 \neq G_w(x,))]$, $* = 1, 2, ..., N$.

3. Output $G(x) = \text{sign}\left|\sum_{m=1}^{M} \alpha_m G_m(x)\right|$

In the algorithm, the current classifier $G_m(x)$ is induced on the weighted observations at line 2a. The resulting weighted error rate is computed at line 2b. Line 2c calculates the weight α_m given to $G_m(x)$ in producing the final classifier $G(x)$ (line 3). The individual weights of each of the observations are updated for the next iteration at line 2d. Observations misclassified by $G_m(x)$ have their weights scaled by a factor $\exp(\alpha_m)$, increasing their relative influence for inducing the next classifier $G_{m+1}(x)$ in the sequence. In some embodiments, modifications of the Freund and Schapire, 1997, Journal of Computer and System Sciences 55, pp. 119-139, boosting method are used. See, for example, Hasti et al., The Elements of Statistical Learning, 2001, Springer, New York, Chapter 10. In some embodiments, boosting or adaptive boosting methods are used.

In some embodiments, modifications of Freund and Schapire, 1997, Journal of Computer and System Sciences 55, pp. 119-139, are used. For example, in some embodiments, feature preselection is performed using a technique such as the nonparametric scoring methods of Park et al., 2002, Pac. Symp. Biocomput. 6, 52-63. Feature preselection is a form of dimensionality reduction in which the genes that discriminate between classifications the best are selected for use in the classifier. Then, the LogitBoost procedure introduced by Friedman et al., 2000, Ann Stat 28, 337-407 is

used rather than the boosting procedure of Freund and Schapire. In some embodiments,

the boosting and other classification methods of Ben-Dor et al., 2000, Journal of

Computational Biology 7, 559-583 are used in the present invention. In some

embodiments, the boosting and other classification methods of Freund and Schapire, 1997,

5   Journal of Computer and System Sciences 55, 119-139, are used.

In the random subspace method, classifiers are constructed in random subspaces of

the data feature space. These classifiers are usually combined by simple majority voting in

the final decision rule. See, for example, Ho, "The Random subspace method for

constructing decision forests," IEEE Trans Pattern Analysis and Machine Intelligence,

10   1998; 20(8): 832-844.

5.14.12   OTHER MATHEMATICAL MODELS

The pattern classification and statistical techniques described above are merely

examples of the types of classifiers that can be used to construct a classifier. Moreover,

combinations of the techniques described above can be used. Some combinations, such as

15   the use of the combination of decision trees and boosting, have been described. However,

many other combinations are possible. In addition, other techniques in the art such as

Projection Pursuit and Weighted Voting can be used to construct classifiers in instances of

step 216.

5.15   IMPLEMENTING THE INVENTION

20   The present invention provides methods and systems for screening molecular

markers to identify classifiers and/or for identifying classifiers for a trait and allows for the

configuration of classifiers based on combinations of a large number of molecular markers.

The invention provides a selection process for reducing the potential large number of

candidate molecular markers and/or combinations thereof down to a manageable number

25   which can be evaluated in one or more mathematical models to derive one or more

classifiers.

Some embodiments of the invention are preferably implemented on a computer

system having a processor and a memory unit. The embodiments may be implemented as

one or more software programs operating on a general purpose computer, such as a

30   personal computer or workstation, or as dedicated special purpose hardware components.

The invention allows for an identification of classifiers while reducing the system

requirements. It provides techniques for consideration of a large number of potential

molecular markers in the classifier identification process with limited memory and computational requirements.

Some embodiments of the invention provide a data-driven selection of a subset of the candidate molecular markers based on their discrimination ability. Thus, it becomes

5   possible to start out with a large group of potentially interesting molecular markers and to automatically prune the set of candidate molecular markers so that the computer system can handle the classifier identification process more efficiently, i.e. within less processing time and less memory space. This becomes more important as combinations of the molecular markers are generated in the classifier identification process and mathematical

10   models are applied to each combination to derive classifiers, which may be a computationally expensive process, in particular when iterative techniques are applied, such as clustering, decision trees, neural networks, or evolutionary methods. Since the possible number of combinations grows almost exponentially with the number of candidate molecular markers, the processing time for the classifier evaluation become a

15   serious problem. The pruning of candidate molecular markers allows for the consideration of two, three, four and more combinations of candidate molecular markers as basis for the classifiers. It enables the evaluation of a large number of classifiers based on molecular markers showing a promising discrimination ability and supersedes a computer resource consuming evaluation of classifiers based on molecular markers which are likely not

20   contributing to the final trait discrimination. Thus, the invention can be implemented on a computer having less computational power and memory while the quality of the derived classifiers is maintained. On the other hand, the invention allows for the consideration of more molecular markers, which are potentially interesting for a given application (trait), with the same available system resources resulting in a possible higher classification

25   accuracy for the derived classifiers.

The invention further provides a data-driven selection of the derived classifiers to remove classifiers and/or molecular markers which do not significantly contribute to the trait discrimination in the later application phase. This automatic pruning step evaluates the discrimination power of the individual classifiers to reduce the necessary system

30   requirements of a diagnostic system applying the selected classifiers for the wide variety of possible medical applications. Thus, a diagnostic system configured with the identified classifiers needs less computational power and memory and may be implemented on a smaller, less expensive device. This becomes more important when the applied mathematical models are more complex and powerful. Examples of complex classifiers are

described in section 5.14 of this description and include, e.g. neural networks, nearest neighbor classifiers, decision tress, etc. The invention enables the operation of optimized combinations of complex classifiers on diagnostic devises with limited resources.

5.16   EMBODIMENTS OF THE INVENTION

6.   EXAMPLES

Computer systems, computer program products, methods, and kits for providing health care have been disclosed. What follows are select examples that illustrate the utility and value of the present invention.

6.1   EVALUATING OSTEOARTHRITIS CLASSIFIERS USING ROC CURVES

This example demonstrates the use of an embodiment of the invention to identify individuals with mild osteoarthritis. Osteoarthritis is a form of degenerative joint disease that involves the deterioration of and changes to the cartilage and bone. In response to inflammation in and about the joint, the body responds with bony recalcification around the joint structure. This process can be slow and gradual with minimal outward symptoms, or more rapidly progressive with significant pain and discomfort. Arthritic changes can occur in response to infection and injury of the joint as well.

Step 202 - generation of a training population.

Blood samples were taken from 44 test individuals not having any symptoms of osteoarthritis and 50 individuals having mild osteoarthritis using the methods described in Section 5.2. A molecular marker profile resulting in data for molecular marker products of the entire human genome was measured from each of these samples. This gene expression profile data together with knowledge of which subjects have osteoarthritis and which do not constitutes the training population 44. The 44 test individuals that do not have any symptoms of osteoarthritis constitute one trait subgroup within the training population and the 50 individuals having mild osteoarthritis constitute another trait subgroup within the training population.

Steps 204-218.

The training population collected in step 202 was used in order to identify combinations of genes that can serve as a classifier to differentiate mild osteoarthritis from non-osteoarthritis. Thus, the classifiers developed in this example are designed to yield a positive score when they predict that a subject has mild osteoarthritis and a negative score when they predict that the subject is in the control population. Using the approach

148

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described in Section 5.1, two specific classifiers were developed: 100000252 and

10000051 1. Classifier 100000252 comprises six genes and has the format:

$$\text{SCORE} = -1.839 + 0.8 \cdot HSPCA - 1.5525 \cdot IKBKAP + 1.10184 \cdot IL13RA1 +$$

$$0.78923 \cdot LAMC1 - 1.3974 \cdot MAFB + 1.0602 \cdot PF4.$$

Classifier 10000051 1 comprises nine genes and has the format:

$$\text{SCORE} = -4.3754 + 0.10276 \cdot EGR1 - 1.1697 \cdot G2AN + 0.88767 \cdot HSPCA -$$

$$0.55785 \cdot IKBKAP + 0.94015 \cdot IL13RA1 + 0.67515 \cdot LAMC1 - 1.5068 \cdot MAFB +$$

$$1.0798 \cdot PF4 + 0.4007 \cdot TNFAIP6.$$

Here, EGR1, G2AN, HSPCA, IKBKAP, IL13RA1, LAMC1, MAFB, and

TNFAIP6 are genes that were identified in step 204 and validated in step 208 (Section 5.1)

for their ability to discriminate between subjects that have mild osteoarthritis and subjects

that do not have osteoarthritis.

Step 220.

To judge which classifier is more suitable as a classifier for mild osteoarthritis, a

ROC curve was computed for both classifiers using the gene expression data from the 44

test individuals not having any symptoms of osteoarthritis and the 50 individuals having

mild osteoarthritis. The results of the ROC computation are illustrated in Fig. 8. The area

under each ROC was computed. From this computation, it was determined that the area

under the ROC curve corresponding to classifier 100000252 was 0.863 whereas the area

under the ROC curve corresponding to classifier 1000005 11 was 0.81 69.

Step 224.

In some embodiments, a classifier can be constructed that includes both classifiers

100000252 and 10000051 1 using the voting methods described in Section 5.1. In

alternative embodiments, classifier 100000252 is selected to serve as a classifier for mild

osteoarthritis because it generated a larger area under the ROC curve corresponding to the

classifier when tested against the training population.

6.2   IDENTIFIED MOLECULAR MARKERS AND MOLECULAR MARKER DATA MEASUREMENT TECHNIQUES

Molecular markers useful for input into one or more steps of the invention and

techniques for measuring data values of such molecular markers, can be found in United

States patent application serial No. 10/601,518, filed June 20, 2003, United States patent

application serial No. 10/802,875, filed March 12, 2004, United States patent application

serial No. 10/809,675, filed March 25, 2004, United States patent application serial No.

10/268,730, filed October 9, 2002, United States patent application serial No. 09/477,148,

filed January 4, 2000, United States patent application serial No. 60/1 15,125, filed Jan. 6, 1999; and United States patent application serial No. 60/581,977, filed June 21, 2004 each of which is hereby incorporated herein by reference in its entirety.

6.3   CONSTRUCTION OF CLASSIFIERS FOR MANIC DEPRESSION SYNDROME

This example demonstrates the use of the claimed invention to identify biomarkers to differentiate manic depression syndrome from non manic depression syndrome and use of same. As used herein, "manic depression syndrome" (MDS) refers to a mood disorder characterized by alternating mania and depression.

Step 202.

Blood samples were taken from patients who were diagnosed with manic depression as defined herein, hi each case, the diagnosis of manic depression was corroborated by a skilled Board certified physician. Molecular marker data was measured for each of the molecular markers of the entire human genome using blood samples from individuals who were identified as having manic depression as described herein and ndividuals not having manic depression. Molecular marker data for both trait subgroups were compared and gene expression profiles for each trait subpopulation compared using commercially available GeneSpring™ softwares. Hybridizations to create the gene expression profiles were done using Affymetrix® GeneChip® platforms (Ul 33A and U133 Plus 2.0) as described herein (data not shown). Samples from patients were clustered into two trait subgroups. The first trait subgroup included patients who have manic depression and the second trait subgroup included patients who do not have manic depression (i.e., control individuals).

Step 204.

The Wilcox Mann Whitney rank sum test was used to identify molecular marker data that could discriminate between the control and diseased trait subgroups with a p value of < 0.05.

Step 206.

Molecular markers were selected from those identified with p value of < 0.05 and the ability to discriminate between the control and diseased trait subgroups were confirmed using quantitative RT-PCR.

Steps 214-218.

Eight candidate molecular markers were chosen and an exhaustive analysis of all possible combinations of said molecular markers were considered. Molecular marker data

for each of the eight candidate molecular markers was obtained for each member of the training population and logistic regression applied to the molecular marker data so as to develop multiple classifiers. Each classifier was ranked on the basis of area under the curve and those classifiers with an ROC of greater than 0.9 chosen.

5   6.4   CONSTRUCTION OF CLASSIFIERS FOR PREDICTING
                        RESPONSE TO TREATMENT

This example demonstrates the use of an embodiment of the invention to identify a classifier for predicting the response of a subject to treatment.

Step 202.

10   Blood samples are taken from patients (for example patients with a disease) who are going to enter into treatment (for the disease), or who are already undergoing treatment, but at a timepoint before being able to determine how the patients will respond to treatment. In one embodiment, blood samples are taken from patientswho are about to enter into a clinical trial for a new treatment, or who are in the early stages of a clinical

15   trial. Preferably blood samples are processed so as to preserve the RNA and/or the protein products of the molecular markers. More preferably the blood samples are processed immediately, within 1 hour, 2 hours, 3 hours, 4 hours, 5 hours, 6 hours, 10 hours, 12, hours, 18 hours or 24 hours from having taken the blood samples from the patients.

Subsequent to when the blood samples are taken, patients continue to be monitored

20   for response to treatment using traditional diagnostic methods and grouped into trait subgroups on the basis of the response to treatment. For example, trait subgroups can include patients with a positive response and no negative side effects, patients with a positive response and mild side effects, patients with a negative response, patients with a toxic response, and the like. In some embodiments, the evaluation of response to treatment

25   can take days, weeks, months or years. In some embodiments, data as described in step 202 of Section 5.1 and Section 5.3 is obtained upon processing of the blood sample. In other embodiments, data of step 202 is obtained only after a determination of response to treatment has been made. In all cases, molecular marker data is obtained from a blood sample taken at a timepoint prior to being able to determine response to treatment. Once

30   trait subgroups are identified on the basis of response to treatment, gene expression profiles of blood samples of each trait subgroup are compared using GeneSpring™ software analysis. Hybridizations to create the gene expression profiles are done using Affymetrix® GeneChip® platforms (U133A and U133 Plus 2.0) platforms (U133A and U133 Plus 2.0) as described herein. Samples from patients are clustered into two trait

subgroups on the basis of the response to treatment. For example, one trait subgroup demonstrates a positive response to treatment whereas the second trait subgroup demonstrates a toxic response to treatment.

Step 204.

The Wilcox Mann Whitney rank sum test is used to identify candidate molecular markers by identifying molecular marker data that discriminates between the response and non-response trait subgroups with a p value of < 0.05 to obtain candidate molecular markers.

Step 206.

Additional molecular marker data for the candidate molecular markers are obtained using quantitative RT-PCR. Some candidate molecular markers are removed at this point should the quantitative RT-PCR data not confirm the ability of each candidate molecular marker to discriminate as between the response trait subgroups.

Steps 214 - 218.

Candidate molecular marker combinations are chosen and an exhaustive analysis of all possible combinations of molecular markers are tested. To test all possible combinations of molecular markers, logistic regression is applied to the molecular marker data so as to develop multiple classifiers. Each classifier is ranked on the basis of area under the curve using the training population. Those classifiers ranking with an ROC area under curve of greater than 0.9 are further evaluated using a scoring population which is not the training population. Note that the blood samples used for the scoring population are obtained at the same time point as the blood samples used for the training population (e.g., at a time prior to being able to determine response to treatment).

6.5   CONSTRUCTION OF CLASSIFIERS FOR DETERMINING A TRAIT OF INTEREST

6.5.1

This example demonstrates the selection of the composition of the training population and the trait subgroups of the training population so as to result in classifiers which are useful to predict disease.

Step 202.

In order to predict disease, blood samples are taken from patients at a time when said patients are disease free. Preferably blood samples are processed so as to preserve the

RNA and/or the protein products of all molecular markers of the entire genome of said individual. More preferably the blood samples are processed immediately, within 1 hour, 2 hours, 3 hours, 4 hours, 5 hours, 6 hours, 10 hours, 12, hours, 18 hours or 24 hours from having taken the blood samples from the patients.

Subsequent to when the blood samples are taken, patients continue to be monitored for development of said disease using traditional diagnostic methods. At a given time point, two trait subgroups are identified, namely individuals who develop said disease of interest and individuals who do not develop said disease of interest. In some embodiments, the timepoint at which trait subgroups are identified can take days, weeks, months or years. In some embodiments, data as described in step 202 of Section 5.1 and Section 5.3 is obtained upon processing of the blood sample. In other embodiments, data of step 202 is obtained only after a determination of trait subgroups has been made. In all cases, data is obtained from a blood sample taken at a timepoint prior to being able to determine disease. Once trait subgroups are identified gene expression profiles of the molecular marker data of the molecular marker products from the blood samples of each trait subgroup are compared using GeneSpring™ software analysis. Hybridizations to create the gene expression profiles are done using Affymetrix® GeneChip® platforms (U133A and U133 Plus 2.0) platforms (U133A and U133 Plus 2.0) as described herein and candidate molecular markers are identified where the molecular marker data is able to differentiate as between said two trait subgroups with a p value of <0.05. Said candidate molecular markers are subsequently processed as described in steps 206 to 226 to identify classifiers and molecular markers capable of predicting disease.

6.5.2

This example demonstrates the selection of the composition of the training population and the trait subgroups of the training population so as to result in classifiers which are useful to determine treatment compliance.

Step 202.

In order to determine treatment compliance, blood samples are taken from patients who are complying with said treatment of interest and patients who are not complying with said treatment. Preferably blood samples are processed so as to preserve the RNA and/or the protein corresponding to molecular markers of the entire genome of said individual. More preferably the blood samples are processed immediately, within 1 hour, 2 hours, 3 hours, 4 hours, 5 hours, 6 hours, 10 hours, 12, hours, 18 hours or 24 hours from having taken the blood samples from the patients.

Molecular marker data is obtained as described in step 202 of Section 5.1 and
Section 5.3 upon processing of the blood sample. Hybridizations to create the gene
expression profiles are done using Affymetrix® GeneChip® platforms (U 133 A and U133
Plus 2.0) platforms (U133A and U133 Plus 2.0) as described herein and candidate

5   molecular markers are identified which differentiate as between patients who comply with
said treatment of interest as compared with patients who do not comply with said treatment
of interest with a p value of 0 .05. Said candidate molecular markers are subsequently
processed as described in steps 206 to 226 to identify classifiers and molecular markers
capable of determining treatment compliance.

10   6.5.3

This example demonstrates the selection of the composition of the training
population and the trait subgroups of the training population so as to result in classifiers
which are useful to predict reoccurrence of disease.

Step 202.

15   In order to predict reoccurrence of disease, blood samples are taken from patients,
all of whom have had a disease of interest, at a time when all of said patients are disease
free. Preferably blood samples are processed so as to preserve the RNA and/or the protein
corresponding to molecular markers of the entire genome of said individual. More
preferably the blood samples are processed immediately, within 1 hour, 2 hours, 3 hours, 4

20   hours, 5 hours, 6 hours, 10 hours, 12, hours, 18 hours or 24 hours from having taken the
blood samples from the patients.

Subsequent to when the blood samples are taken, patients continue to be monitored
for reoccurence of said disease using traditional diagnostic methods. At a given time
point, two trait subgroups are identified, namely individuals who develop reoccurrence of

25   said disease of interest and individuals who do not develop said disease of interest.   In
some embodiments, the timepoint at which trait subgroups are identified can take days,
weeks, months or years. In some embodiments, data as described in step 202 of Section
5.1 and Section 5.3 is obtained upon processing of the blood sample. In other
embodiments, data of step 202 is obtained only after a determination of trait subgroups has

30   been made. In all cases, data is obtained from a blood sample taken at a timepoint prior to
being able to determine reoccurrence of disease. Once trait subgroups are identified
molecular marker data of the molecular marker products from the blood samples of each
trait subgroup are compared using GeneSpring™ software analysis. Hy bridizations to
create the gene expression profiles are done using Affymetrix® GeneChip® platforms

(U133A ana U133 FMs 2.ü) platforms (U133A and U133 Plus 2.0) as described herein and candidate molecular markers are identified whose molecular marker data differentiates as between said two trait subgroups with a p value of <0.05. Said candidate molecular markers are subsequently processed as described in steps 206 to 226 to identify classifiers

5   and molecular markers capable of predicting reoccurrence of disease.

6.5.4

This example demonstrates the use of classifiers used in series so as to diagnose a patient with a stage of disease, for example a specific stage of osteoarthritis.

We have identified previously four different stages of osteoarthritis; namely mild

10   osteoarthritis, moderate osteoarthritis, marked osteoarthritis and severe osteoarthritis (see for example PCT patent application WO02070737 Entitled "Compositions and Methods relating to osteoarthritis"

In some instances it is useful to determine which stage of osteoarthritis an individual has, and more importantly to confirm that said patient does not have any other

15   stage of osteoarthritis. For example if an individual has changed their lifestyle and lost weight -to determine whether the osteoarthritis has regressed.

Classifiers of the invention are able to differentiate as between two subgroups. As such —multiple classifiers are required to specifically stage an individual.

A first classifier is developed which differentiates as between osteoarthritis and

20   non-osteoarthritis. As described, a training population is selected comprised of two trait subgroups where said first trait subgroup is comprised of individuals having osteoarthritis and the second trait subgroup comprised of individuals not having osteoarthritis. Identification of candidate molecular markers which differentiate as between these two trait subgroups are identified as per step 202 and subsequently processed as described in

25   steps 206 to 226 to identify classifiers and molecular markers capable of differentiating between osteoarthritis and non-osteoarthritis.

Similarly classifiers are identified which are capable of differentiating between (a) mild osteoarthritis and moderate osteoarthritis (b) moderate osteoarthritis and marked osteoarthritis (c) marked osteoarthritis and severe osteoarthritis.

30   In order to diagnose an individual as having marked osteoarthritis and not having mild osteoarthritis or severe osteoarthritis, a series of tests are applied. First a classifier which determines whether said patient has osteoarthritis or not is applied. Assuming said patient has osteoarthritis, a classifier is applied which determines whether said patient has either mild osteoarthritis or marked osteoarthritis. Assuming said patient has marked

osteoarthritis,"! cl'assïKeFis'applied to determine whether said patient has marked osteoarthritis or severe osteoarthritis. The result of these series of classifiers can determine that said patient has marked osteoarthritis and does not have any other stage of osteoarthritis.

5

6.6   CONSTRUCTION OF CLASSIFIERS FOR DETERMINING A TRAIT OF INTEREST (OR DIFFERENTIATING BETWEEN TWO TRAITS OF INTEREST) USING THE MOLECULAR MARKERS IDENTIFIED IN ONE OF THE DISCLOSED TABLES

10   While the examples described below suggest selection of molecular markers prior to generating all combinations of classifiers from the disclosed Tables can be based on a specific measure of statistical significance (p value) as disclosed for each molecular marker (see Table G and Table H) it must be appreciated that the selection of molecular markers may also be based on any other method disclosed in this application, such as

15   differential fold change or even a combination of selection of p value and differential fold change. A skilled person in the art will recognize these other methods can also be used so as to permit the selection of subsets of the molecular markers to derive lists for which a reasonable number of combinations can be tested within the limits of the computer processing capacity. The skilled person will be able to transfer the details given in this

20   section for examples based on a p value evaluation to carry out the selection based on other disclosed selection methods or selection methods known to him.

TABLE F

Selected Table	Trait of Interest	Recommended Training Population	
		Key Trait of Members of Trait Subgroup A	Key Trait of Members of Trait Subgroup B
Table 1A	Osteoarthritis and Hypertension	Members have both Osteoarthritis and Hypertension	Members have neither Osteoarthritis nor Hypertension
Table 1B	Osteoarthritis and Obesity	Members have both Osteoarthritis and Obesity	Members have neither Osteoarthritis nor Obesity
Table 1C	Osteoarthritis and Allergies	Members have both Osteoarthritis and Allergies	Members have neither Osteoarthritis nor Allergies
Table 1D	Osteoarthritis and	Members have both	Members have

	Systemic Steroids	Osteoarthritis and are taking Systemic Steroids	neither Osteoarthritis nor are taking Steroids
Table 1E	Hypertension	Members have Hypertension	Members do not have Hypertension
Table 1F	Obesity	Members are Obese	Members are not Obese
Table 1G	Hypertension	Members have Hypertension.	Members do not have Hypertension
		Members have Hypertension and Osteoarthritis.	Members do not have Osteoarthritis
Table 1H	Hypertension and Osteoarthritis	Members have Hypertension and Osteoarthritis	Members do not have either Hypertension or Osteoarthritis
Table 1I	Obesity	Members are Obese	Members are not Obese
		Members have Obesity and Osteoarthritis	Members do not have Osteoarthritis.
Table 1J	Obesity and Osteoarthritis	Members have Osteoarthritis and are also Obese	Members do not have either Osteoarthritis and are not Obese
Table 1K	Allergies	Members have Allergies	Members do not have Allergies
		Members have Allergies and Osteoarthritis	Members do not have Osteoarthritis
Table 1L	Allergies and Osteoarthritis	Members have Allergies and Osteoarthritis	Members do not have either Allergies or Osteoarthritis
Table 1M	Systemic Steroids	Members have been taking Systemic Steroids	Members have not been taking Systemic Steroids
		Members have been taking Systemic Steroids and have Osteoarthritis	Members do not have Osteoarthritis.
Table 1N	Systemic Steroids and Osteoarthritis	Members have Osteoarthritis and have been taking Systemic Steroids	Members do not have Osteoarthritis and have not been taking systemic Steroids
Table 1O	Taking Birth Control	Members taking Birth Control	Members not taking Birth Control
	Taking Prednisone	Members taking Prednisone	Members not taking Prednisone
	Taking Hormone Replacement	Members taking Hormone	Members not taking Hormone

	Therapy	Replacement Therapy	Replacement Therapy
Table 1P	Type II Diabetes	Members have Type II Diabetes	Members do not have Type II Diabetes
Table 1Q	Hyperlipidemis	Members have Hyperlipidemia	Members do not have Hyperlipidemia
Table 1R	Lung Disease	Members have Lung Disease	Members do not have Lung Disease
Table 1S	Bladder Cancer	Members have Bladder Cancer	Members do not have Bladder Cancer
Table 1T	Early Stage Bladder Cancer	Members have Early Stage Bladder Cancer	Members do not have Bladder Cancer
		Members have Early Stage Bladder Cancer	Members do not have Early Stage Bladder Cancer
	Late Stage Bladder Cancer	Members have Late Stage Bladder Cancer	Members do not have Bladder Cancer
		Members have Late Stage Bladder Cancer	Members do not have Late Stage Bladder Cancer
Table 1U	Coronary Artery Disease (CAD)	Members have CAD	Members do not have CAD
Table 1V	Rheumatoid Arthritis (RA)	Members have RA	Members do not have RA
Table 1W	Rheumatoid Arthritis (RA)	Members have RA	Members do not have RA
Table 1X	Depression	Members have Depression	Members do not have Depression
Table 1Y	Stage of Osteoarthritis - Mild	Members have Mild OA	Members do not have OA
	Stage of Osteoarthritis – Moderate	Members have Moderate OA	Members do not have OA
	Stage of Osteoarthritis – Marked	Members have Marked OA	Members do not have OA
	Stage of Osteoarthritis – Severe	Members have Severe OA	Members do not have OA
Table 1Z	Liver Cancer	Members have Liver Cancer	Members do not have Liver Cancer
Table 1Z(b)	Liver Cancer	Members have Liver Cancer	Members do not have Liver Cancer
Table 1AA	Schizophrenia	Members have Schizophrenia	Members do not have Schizophrenia
Table 1AB	Chagas Disease	Members have Chagas Disease	Members do not have Chagas Disease
Table 1AC	Asthma	Members have	Members have OA

158

		Asthma and OA	
Table 1AD	Asthma	Members have Asthma	Members do not have Asthma
Table 1AE	Lung Cancer	Members have Lung Cancer	Members do not have Lung Cancer
Table 1AG	Hypertension	Members have Hypertension	Members do not have Hypertension
Table 1AH	Obesity	Members have Obesity	Members do not have Obesity
Table 1AI	Ankylosing Spondylitis	Members have Ankylosing Spondylitis	Members do not have Ankylosing Spondylitis
Table 2	Osteoarthritis	Members have Osteoarthritis	Members do not have Osteoarthritis
Table 3A	Schizophrenia or Manic Depression Syndrome (MDS)	Members have Schizophrenia	Members have MDS
Table 3B	Hepatitis or Liver Cancer	Members have Hepatitis	Members have Liver Cancer
Table 3C	Bladder Cancer or Liver Cancer	Members have Bladder Cancer	Members have Liver Cancer
Table 3D	Bladder Cancer or Testicular Cancer	Members have Bladder Cancer	Members have Testicular Cancer
Table 3E	Testicular Cancer or Kidney Cancer	Members have Testicular Cancer	Members have Kidney Cancer
Table 3F	Liver Cancer or Stomach Cancer	Members have Liver Cancer	Members have Stomach Cancer
Table 3G	Liver Cancer or Colon Cancer	Members have Liver Cancer	Members have Colon Cancer
Table 3H	Stomach Cancer or Colon Cancer	Members have Stomach Cancer	Members have Colon Cancer
Table 3I	Rheumatoid Arthritis or Osteoarthritis	Members have Rheumatoid Arthritis	Members have Osteoarthritis
Table 3K	Chagas Disease or Heart Failure	Members have Chagas Disease	Members have Heart Failure
Table 3L	Chagas Disease or Coronary Artery Disease	Members have Chagas Disease	Members have CAD
Table 3N	Coronary Artery Disease or Heart Failure	Members have CAD	Members have Heart Failure
Table 3P	Asymptomatic Chagas or Symptomatic Chagas	Members have Asymptomatic Chagas	Members have Symptomatic Chagas
Table 3Q	Alzheimer's or Schizophrenia	Members have Alzheimer's	Members have Schizophrenia
Table 3R	Alzheimer's or Manic Depression Syndrome	Members have Alzheimer's	Members have Manic Depression

Table 4A	Osteoarthritis	Members have Osteoarthritis	Members do not have Osteoarthritis
Table 4B	Osteoarthritis	Members have Osteoarthritis	Members do not have Osteoarthritis
Table 4C	Mild Osteoarthritis	Members have Mild Osteoarthritis	Members do not have Osteoarthritis
Table 4D	Mild Osteoarthritis	Members have Mild Osteoarthritis	Members do not have Osteoarthritis
Table 4E	Moderate Osteoarthritis	Members have Moderate Osteoarthritis	Members do not have Osteoarthritis
Table 4F	Moderate Osteoarthritis	Members have Moderate Osteoarthritis	Members do not have Osteoarthritis
Table 4G	Marked Osteoarthritis	Members have Marked Osteoarthritis	Members do not have Osteoarthritis
Table 4H	Marked Osteoarthritis	Members have Marked Osteoarthritis	Members do not have Osteoarthritis
Table 4I	Severe Osteoarthritis	Members have Severe Osteoarthritis	Members do not have Osteoarthritis
Table 4J	Severe Osteoarthritis	Members have Severe Osteoarthritis	Members do not have Osteoarthritis
Table 4K	Mild Osteoarthritis or Moderate Osteoarthritis	Members have Mild Osteoarthritis	Members have Moderate Osteoarthritis
Table 4L	Mild Osteoarthritis or Moderate Osteoarthritis	Members have Mild Osteoarthritis	Members have Moderate Osteoarthritis
Table 4M	Mild Osteoarthritis or Marked Osteoarthritis	Members have Mild Osteoarthritis	Members have Marked Osteoarthritis
Table 4N	Mild Osteoarthritis or Marked Osteoarthritis	Members have Mild Osteoarthritis	Members have Marked Osteoarthritis
Table 4O	Mild Osteoarthritis or Severe Osteoarthritis	Members have Mild Osteoarthritis	Members have Severe Osteoarthritis
Table 4P	Mild Osteoarthritis or Severe Osteoarthritis	Members have Mild Osteoarthritis	Members have Severe Osteoarthritis
Table 4Q	Moderate Osteoarthritis or Marked Osteoarthritis	Members have Moderate Osteoarthritis	Members have Marked Osteoarthritis
Table 4R	Moderate Osteoarthritis or Marked Osteoarthritis	Members have Moderate Osteoarthritis	Members have Marked Osteoarthritis
Table 4S	Moderate	Members have	Members have

	Osteoarthritis or Severe Osteoarthritis	Moderate Osteoarthritis	Severe Osteoarthritis
Table 4T	Moderate Osteoarthritis or Severe Osteoarthritis	Members have Moderate Osteoarthritis	Members have Severe Osteoarthritis
Table 4U	Marked Osteoarthritis or Severe Osteoarthritis	Members have Marked Osteoarthritis	Members have Severe Osteoarthritis
Table 4V	Marked Osteoarthritis or Severe Osteoarthritis	Members have Marked Osteoarthritis	Members have Severe Osteoarthritis
Table 5A	Psoriasis	Members have Psoriasis	Members do not have Psoriasis
Table 5B	Thyroid Disorder	Members have Thyroid Disorder	Members do not have Thyroid Disorder
Table 5C	Irritable Bowel Syndrome	Members have Irritable Bowel Syndrome	Members do not have Irritable Bowel Syndrome
Table 5D	Osteoporosis	Members have Osteoporosis	Members do not have Osteoporosis
Table 5E	Migraine Headaches	Members have Migraine Headaches	Members do not have Migraine Headaches
Table 5F	Eczema	Members have Eczema	Members do not have Eczema
Table 5G	NASH	Members have NASH	Members do not have NASH
Table 5H	Alzheimer's	Members have Alzheimers'	Members do not have Alzheimers'
Table 5I	Manic Depression Syndrome	Members have Manic Depression Syndrome	Members do not have Manic Depression Syndrome
Table 5J	Crohn's Colitis	Members have Crohn's Colitis	Members do not have Crohn's Colitis
Table 5K	Chronic Cholecystis	Members have Chronic Cholecystis	Members do not have Chronic Cholecystis
Table 5L	Heart Failure	Members have Heart Failure	Members do not have Heart Failure
Table 5M	Cervical Cancer	Members have Cervical Cancer	Members do not have Cervical Cancer
Table 5N	Stomach Cancer	Members have Stomach Cancer	Members do not have Stomach Cancer
Table 5O	Kidney Cancer	Members have Kidney Cancer	Members do not have Kidney Cancer
Table 5P	Testicular Cancer	Members have Testicular Cancer	Members do not have Testicular

			Cancer
Table 5Q	Colon Cancer	Members have Colon Cancer	Members do not have Colon Cancer
Table 5R	Hepatitis B	Members have Hepatitis B	Members do not have Hepatitis B
Table 5S	Pancreatic Cancer	Members have Pancreatic Cancer	Members do not have Pancreatic Cancer
Table 5T	Asymptomatic Chagas	Members have Asymptomatic Chagas	Members do not have Asymptomatic Chagas
Table 5U	Symptomatic Chagas	Members have Symptomatic Chagas	Members do not have Symptomatic Chagas
Table 5V	Bladder Cancer	Members have Bladder Cancer	Members do not have Bladder Cancer
Table 6A	Cancer	Members have Cancer	Members do not have Cancer
Table 6B	Cardiovascular Disease	Members have Cardiovascular Disease	Members do not have Cardiovascular Disease
Table 6C	Neurological Disorders	Members have a Neurological Disorder	Members do not have a Neurological Disorder
Table 7A	Celebrex® or Other Cox Inhibitor	Members taking Celebrex®	Members taking non Celebrex® Cox Inhibitor
Table 7B	Celebrex®	Members taking Celebrex®	Members not taking Celebrex®
Table 7C	Vioxx®	Members taking Vioxx®	Members not taking Vioxx®
Table 7D	Vioxx® or Other Cox Inhibitor	Members taking Vioxx®	Members taking non Vioxx® Cox Inhibitor
Table 7E	NSAIDS	Members taking NSAIDS	Members not taking NSAIDS
Table 7F	Cortisone	Members taking Cortisone	Members not taking Cortisone
Table 7G	Visco Supplement	Members taking Visco Supplement	Members not taking Visco Supplement
Table 7H	Lipitor®	Members taking Lipitor®	Members not taking Lipitor®
Table 7I	Smokers	Members are Smokers	Members are not Smokers

CONSTRUCTION OF CLASSIFIERS FOR DETERMINING A TRAIT OF INTEREST

Steps 202-204

     In order to identify useful classifiers for a trait of interest, for example mild

5   osteoarthritis, one or more of the tables listed in Table F above which have the same

recommended training population can be used. Thus for example, for mild osteoarthritis, one can select one or more of Tables IY; 4C; 4D. These molecular markers listed resulted from application of Steps 202-204 as outlined in Figure 2A as more fully described for each Table herein.　　Once one or more Tables have been selected, it is helpful to select a

5　　subset of the molecular markers in the Table or Tables before proceeding to step 206. For example, combining Tables IY, 4C and 4D and selecting molecular markers where the molecular marker data demonstrates an ability to differentiate as between the two trait subgroups with a p value of less than 0.0001 results in 212 molecular markers. Note that p values resulting from the molecular marker data for each molecular marker identified in

10　　any of Tables IA to 7I can be found in Tables 8A or Tables 8B below.

　　　　Table 8A identifies molecular markers via the Clone ID of the probe used to hybridize to the molecular marker products. The Clone ID corresponds to the Clone ID found in tables IA; 1AC; IB; 1C; ID; IE; IF; IG; IH; II; IJ; IK; IL; IM; IN; 10; IP; IQ; IR; IV; IX; IY; IZ; 2; 4A; 4C; 4E; 4G; 4I; 4K; 4M; 40; 4Q; 4S; 4V; 7A; 7B; 7C;

15　　7D; 7E; 7H; and 7I (ie those Tables generated using the ChondroChip™ as outlined herein). Table 8A then identifies the corresponding Table in which the molecular market- is identified via said Clone ID. Finally the p value of the molecular marker data obtained using the ChondroChip™ is listed. Note that Table 8A is sorted first by Table number and then by p value.

20　　　　　Table 8B identifies molecular markers via the Affymetrix® Spot ID of the probe pair used to hybridize to the molecular marker products. The Affy Spot ID corresponds to the Affy Spot ID found in tables Tables IAA; IAB; IAD; IAE; IAG; IAH; IAT; IS; IT; IU; IW; IZ(b); 3A; 3B; 3C; 3D; 3E; 3F; 3G; 3H; 3I; 3K; 3L; 3P; 3Q; 3R; 4B; 4D; 4F; 4H; 4J; 4L; 4N; 4P; 4R; 4T; 4V; 5A; 5B; 5C; 5D; 5EE; 5F; 5G; 5H; 5I; 5J; 5K; 5L; 5M; 5N;

25　　50; 5P 5Q; 5R; 5S; 5T; 5U; 5V; 6A; 6B; 6C; 7F; and 7G (ie those Tables generated using the Affymetrix™ Gene Chip as outlined herein). Table 8B then identifies the corresponding Table in which the molecular marker is identified via said Affymetrix® Spot ID. Finally the p value of the molecular marker data obtained using the ChondroChip™ is listed. Note that Table 8B is sorted first by Table number and then by p

30　　value.
Step 206

　　　　For the 212 selected molecular markers - a training population is chosen having two trait subgroups where the two trait subgroups are outlined in Table F above as corresponding to the Tables used to select the molecular markers, thus in this example, the

first trait subgroup is members having mild osteoarthritis and the second trait subgroup is members not having osteoarthritis. A blood sample from each member of the training population is obtained and processed using techniques as described herein and mRNA isolated. The resulting mRNA is reverse transcribed using ABFs High Capacity cDNA

5   Archive Kit and the cDNA is then used for quantitative RT-PCR so as to collect molecular marker data for application to a logistic regression model. Amplification primers are designed for each of the 212 molecular markers. Preferably primers are chosen which amplify across an intron junction. Quantitative Real Time PCR is performed using Qiagen's QuantiTect™Sybr Green RT-PCR kit and data corresponding to the level of

10   RNA for each of the molecular markers
     Steps 214 - 218.

     From the 212 candidate molecular markers selected, an exhaustive analysis of all possible combinations of molecular markers using the molecular marker data obtained using quantitative RT-PCR data is tested using logistic regression so as to develop multiple

15   classifiers. Each classifier is ranked on the basis of area under the curve using the training population. Those classifiers ranking with an ROC area under curve of greater than 0.8 are further evaluated using a scoring population which is not the training population. Those classifiers resulting in an ROC area under the curve of greater than 0.7 as determined using the scoring population are selected. Each of The selected classifieis is comprised of a

20   combination of molecular markers from one of Tables IY, 4C and 4D.
     USE OF THE SELECTED CLASSIFIER TO DIAGNOSE AN INDIVIDUAL AS HAVING MILD OSTEOARTHRITIS.

     Any of the selected classifiers can be used to diagnose an individual as having mild osteoarthritis. A blood sample from a test individual is processed using techniques as

25   described herein to isolate mRNA. mRNA is reverse transcribed using ABFs High Capacity cDNA Archive Kit and the cDNA is then used for quantitative RT-PCR. Amplification primers are designed for each of the molecular markers in the classifier selected which amplify across an intron junction. Quantitative Real Time PCR is performed using Qiagen's QuantiTect™Sybr Green RT-PCR kit and data corresponding to

30   the level of RNA for each of the molecular markers of the selected classifier obtained. The data is then used in conjunction with the logistic regression classifier so as to convert the data resulting from the Quantitative RT-PCR into a single number. If the number is greater than 0 - the test individual is diagnosed as having mild osteoarthritis is the number is less than 0 the test individual is diagnosed as not having osteoarthritis.

7.   REFERENCES CITED

All references cited herein are incorporated herein by reference in their entirety and for all purposes to the same extent as if each individual publication or patent or patent application was specifically and individually indicated to be incorporated by reference in its entirety for all purposes.

The present invention can be implemented as a computer program product that comprises a computer program mechanism embedded in a computer readable storage medium. For instance, the computer program product could contain the program modules shown in Fig. 1. These program modules may be stored on a CD-ROM, DVD, magnetic disk storage product, or any other computer readable data or program storage product. The software modules in the computer program product can also be distributed electronically, via the Internet or otherwise, by transmission of a computer data signal (in which the software modules are embedded) on a carrier wave.

Many modifications and variations of this invention can be made without departing from its spirit and scope, as will be apparent to those skilled in the art. The specific embodiments described herein are offered by way of example only, and the invention is to be limited only by the terms of the appended claims, along with the full scope of equivalents to which such claims are entitled.

Table 8A

Clone ID	TableNo.	p-value	Clone ID	TableNO.	P Value
miob8143	IA	2.14e-05	fcrb4231	IA	3.784194e-03
ncrc5844	IA	1.135 βe-04	seob0755	IA	3.784194e-03
hfcr3149	IA	1.30609e-04	seocl023	IA	3.784194e-03
fcrb3330	IA	1.71826e-04	fcrb4 995	IA	4.164516e-03
ncrc9772	IA	1.71826e-04	fcrb6031	IA	4.164516e-03
fcrb2162	IA	2.24449e-04	fcrb6896	IA	4.164516e-03
ncrb8343	IA	2.55864e-04	fcrcl689	IA	4.164516e-03
fcrb4226	IA	2.91185e-04	fcrc6228	IA	4.164516e-03
seoc6182	IA	2.91185e-04	ncr7672	IA	4.164516e-03
seoa3408	IA	3.75265e-04	ncrcl885	IA	4.164516e-03
fcrb6191	IA	4.80528e-04	ncrc3544	IA	4.164516e-03
miocl028	IA	4.80528e-04	seoa2381	IA	4.164516e-03
seob2966	IA	5.4249e-04	seob9872	IA	4.164516e-03
seoc0775	IA	5.4249e-04	fcrb2090	IA	4.577725e-03
fcrcl834	IA	7.73507e-04	hfcr0489	IA	4.577725e-03
ncrc3257	IA	7.88975e-04	miodl4 48	IA	4.577725e-03
ncrc2472	IA	8.68041e-04	ncr7813	IA	4.577725e-03
mioc3930	IA	1.216349e-03	ncrc9712	IA	4.577725e-03
ncr0847	IA	1.216349e-03	ncrc9855	IA	4.577725e-03
miob8947	IA	1.253946e-03	seoa0256	IA	4.577725e-03
fcrb5214	IA	1.357347e-03	seoa3555	IA	4.577725e-03
miob4037	IA	1.512638e-03	mioa0601	IA	4.9929e-03
miob8932	IA	1.512638e-03	fcrb2713	IA	5.026153e-03
fcrc0166	IA	1.683445e-03	mioal704	IA	5.026153e-03
miob8249	IA	1.683445e-03	miob6419	IA	5.026153e-03
seob3485	IA	1.683445e-03	raioc2997	IA	5.026153e-03
seob7929	IA	1.683445e-03	mioc3127	IA	5.026153e-03
seob0154	IA	1.871074e-03	ncr7904	IA	5.026153e-03
fcrc6345	IA	2.076917e-03	ncrc5088	IA	5.026153e-03
mioa5059	IA	2.076917e-03	seoa2641	IA	5.026153e-03
fcrb4378	IA	2.302455e-03	seoa3359	IA	5.026153e-03
miod4066	IA	2.302455e-03	seob5069	IA	5.026153e-03
ncrc5091	IA	2.302455e-03	seob5213	IA	5.026153e-03
mioc0162	IA	2.452971e-03	ncrl948	IA	5.341175e-03
fcrc5516	IA	2.549264e-03	fcrb9324	IA	5.512248e-03
miob4308	IA	2.549264e-03	fcrc6990	IA	5.512248e-03
seobl319	IA	2.549264e-03	miocl598	IA	5.512248e-03
fcrl997	IA	2.819017e-03	seob4752	IA	5.512248e-03
fcr4471	IA	2.819017e-03	mioa0528	IA	6.038584e-03
ncr0615	IA	2.819017e-03	mioc2074	IA	6.038584e-03
ncr9549	IA	2.819017e-03	miod5703	IA	6.038584e-03
ncrc0729	IA	2.819017e-03	ncrc3391	IA	6.038584e-03
fcrb4572	IA	3.113486e-03	seob0168	IA	6.038584e-03
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173

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hfcr0560	IE	5.26957e-03	ncrc9412	IE	6.565913e-03
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ncrc8949	IE	5.26957e-03	seoc0068	IE	6.651586e-03
seoa4202	IE	5.26957e-03	mioa7169	IE	6.962202e-03
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185

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seob1981	IE	0.01	ncrc4135	IE	0.01
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fcrb4281	IE	0.01	seob0928	IE	0.01
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fcrb4712	IE	0.01	fcrb3001	IE	0.01
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fcrb5440	IE	0.01	fcrc1689	IE	0.01
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ncrb7482	IE	0.01	seoc2029	IE	0.01
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ncrc9739	IE	0.01	mioc4667	IE	0.01
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fcrb2318	IE	0.01	fcrc4180	IE	0.01
miob8947	IE	0.01	fcrc6010	IE	0.01
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fcrb1684	IE	0.01	miob238 6	IE	0.01
fcrb1969	IE	0.01	miob4370	IE	0.01
fcrb7703	IE	0.01	miob5119	IE	0.01
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mioa5326	IE	0.01	ncr3339	IE	0.01
mioa9025	IE	0.01	ncr5713	IE	0.01
miob2341	IE	0.01	ncrc1615	IE	0.01
ncr1768	IE	0.01	ncrc2928	IE	0.01
ncr4545	IE	0.01	ncrc5559	IE	0.01
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fcrb5527	IE	0.01	seoa1041	IE	0.01
fcrb6717	IE	0.01	seoa1653	IE	0.01
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fcrc4722	IE	0.03	seob7030	IE	0.03
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ncr8075	IE	0.03	miob6598	IE	0.03
ncrcl259	IE	0.03	miod4540	IE	0.03
ncrc2182	IE	0.03	ncr0097	IE	0.03
ncrc3624	IE	0.03	ncr3357	IE	0.03
ncrc4728	IE	0.03	ncr3402	IE	0.03
ncrc8932	IE	0.03	ncrb2027	IE	0.03
ncrc9867	IE	0.03	ncrc0284	IE	0.03
seoal739	IE	0.03	ncrc2613	IE	0.03
seoa4452	IE	0.03	ncrc2859	IE	0.03
seoa4640	IE	0.03	ncrc9284	IE	0.03
seoa6654	IE	0.03	seoal747	IE	0.03
seoa6697	IE	0.03	seoa3761	IE	0.03
seob0046	IE	0.03	seoa8822	IE	0.03
seob0219	IE	0.03	seob2717	IE	0.03
seobl155	IE	0.03	fcrc0559	IE	0.03
seob2139	IE	0.03	fcrc7222	IE	0.03
seob3189	IE	0.03	ncrb3980	IE	0.03
seocl631	IE	0.03	seoal582	IE	0.03
seoc2131	IE	0.03	mioc7952	IE	0.03
mioa5951	IE	0.03	seoc4038	IE	0.03
seob5064	IE	0.03	miobl774	IE	0.03
ncrc9055	IE	0.03	miocl030	IE	0.03
seoc8115	IE	0.03	seob7039	IE	0.03
seob0182	IE	0.03	ncr8314	IE	0.03
mioc2336	IE	0.03	fcr2079	IE	0.03
seocl307	IE	0.03	fcr2798	IE	0.03
fcr4471	IE	0.03	fcr3269	IE	0.03
fcrbl381	IE	0.03	fcr4846	IE	0.03
fcrb3120	IE	0.03	fcrb4470	IE	0.03
fcrb4782	IE	0.03	fcrb7852	IE	0.03
fcrc0376	IE	0.03	fcrb8133	IE	0.03
fcrc3993	IE	0.03	fcrc5705	IE	0.03
fcrc5134	IE	0.03	hfcr0412	IE	0.03
mioa0192	IE	0.03	hfcr2629	IE	0.03
mioal660	IE	0.03	hfcr6043	IE	0.03
mioa9154	IE	0.03	mioal380	IE	0.03
mioa9831	IE	0.03	mioa6913	IE	0.03
miocl560	IE	0.03	miob3072	IE	0.03
miod2369	IE	0.03	miod4066	IE	0.03
miod3254	IE	0.03	ncr3141	IE	0.03
ncrc0529	IE	0.03	ncr7267	IE	0.03

190

ncrc3713	-ΓE	··UTUi		m±ob4 673	IE	0.04
seoal552	IE	0.03		mioc3066	IE	0.04
seoAL661	IE	0.03		mioc7421	IE	0.04
seoal720	IE	0.03		ncr0110	IE	0.04
seoa5911	IE	0.03		ncr1055	IE	0.04
seoa9777	IE	0.03		ncr7904	IE	0.04
seob4925	IE	0.03		ncr9934	IE	0.04
seob8817	IE	0.03		ncrb8569	IE	0.04
fcrb5051	IE	0.03		ncrc1374	IE	0.04
mioc0910	IE	0.03		ncrc2290	IE	0.04
miod0773	IE	0.03		seoal770	IE	0.04
seob5562	IE	0.03		seoa7587	IE	0.04
hfcr2524	IE	0.03		seob0065	IE	0.04
fcr4468	IE	0.03		seob5882	IE	0.04
fcrb5725	IE	0.03		seoa9042	IE	0.04
fcrb8981	IE	0.03		seocl957	IE	0.04
fcrb9324	IE	0.03		mioaO 601	IE	0.04
fcrc5614	IE	0.03		miod5771	IE	0.04
fcrc β011	IE	0.03		seobl839	IE	0.04
fcrc6551	IE	0.03		fcrb2591	IE	0.04
fcrc7014	IE	0.03		miobl830	IE	0.04
mioa3392	IE	0.03		fcrb4981	IE	0.04
mioa3514	IE	0.03		hfcr5514	IE	0.04
mioa5447	IE	0.03		fcrb2715	IE	0.04
mioa8946	IE	0.03		fcrb27 92	IE	0.04
miob7117	IE	0.03		fcrb27 96	IE	0.04
miob967 9	IE	0.03		fcrb2979	IE	0.04
mioc4766	IE	0.03		fcrb6817	IE	0.04
ncr0836	IE	0.03		fcrb9007	IE	0.04
ncr7286	IE	0.03		fcrb9225	IE	0.04
ncrb4319	IE	0.03		mioal944	IE	0.04
ncrc.0393	IE	0.03		mioa5202	IE	0.04
ncrc0849	IE	0.03		miob2656	IE	0.04
ncrc3537	IE	0.03		mioc5736	IE	0.04
ncrc5019	IE	0.03		mioc6878	IE	0.04
ncrc6587	IE	0.03		ncr6326	IE	0.04
seoa0135	IE	0.03		ncr7341	IE	0.04
seoa2528	IE	0.03		ncr9371	IE	0.04
seoa8351	IE	0.03		ncrb8641	IE	0.04
seoa9482	IE	0.03		ncrc3417	IE	0.04
seob0200	IE	0.03		ncrc7131	IE	0.04
seob5054	IE	0.03		seoa4327	IE	0.04
seob6133	IE	0.03		seob2735	IE	0.04
miod7212	IE	0.03		seob7729	IE	0.04
ncr2182	IE	0.03		ncr0612	IE	0.04
seoa6466	IE	0.03		ncr3834	IE	0.04
fcrb2554	IE	0.03		mioc8766	IE	0.04
seoa9997	IE	0.04		ncr0251	IE	0.04
hfcr2148	IE	0.04		ncrc2463	IE	0.04
mioa7069	IE	0.04		fcrb575 β	IE	0.04
miob2709	IE	0.04		miob2116	IE	0.04
fcr4 494	IE	0.04		ncr3718	IE	0.04
fcrbl580	IE	0.04		fcrb844 9	IE	0.04
fcrbl633	IE	0.04		ncrc5804	IE	0.04
fcrb2499	IE	0.04		fcr2276	IE	0.04
fcrb2849	IE	0.04		miod2334	IE	0.04
fcrb3219	IE	0.04		seob3139	IE	0.04
fcrb3515	IE	0.04		seocl881	IE	0.04
fcrb8445	IE	0.04		seoa8960	IE	0.04
fcrb9636	IE	0.04		fcrb2569	IE	0.04
fcrc5137	IE	0.04		fcrb6472	IE	0.04
fcrc5328	IE	0.04		fcrc0351	IE	0.04
mioa0364	IE	0.04		fcrcOββ1	IE	0.04
mioa2851	IE	0.04		fcrc2647	IE	0.04

fcrc(S381	'IE	Ó.ÜA	seob0547	IE	0.04
hfcrll89	IE	0.04	seobl906	IE	0.04
hfcr2770	IE	0.04	seob5395	IE	0.04
miob5810	IE	0.04	hfcr5865	IE	0.04
miod6025	IE	0.04	fcrc5402	IE	0.04
ncrb4869	IE	0.04	miob9228	IE	0.04
ncrb8538	IE	0.04	hfcr5970	IE	0.04
ncrc0217	IE	0.04	ncrc4079	IE	0.04
ncrc0747	IE	0.04	hfcr4046	IE	0.04
ncrcll68	IE	0.04	seob3513	IF	1.44e-05
ncrc2607	IE	0.04	miob9652	IF	9.27e-05
ncrc6416	IE	0.04	mioa2290	IF	1.00455e-04
ncrc8903	IE	0.04	mioa3987	IF	1.01e-04
seoal802	IE	0.04	hfcr4489	IF	1.17e-04
seoa3555	IE	0.04	ncr2363	IF	1.17e-O4
seoa5447	IE	0.04	mioc5633	IF	1.43481e-04
seobl9Q8	IE	0.04	fcrb4383	IF	1.45e-04
seocl230	IE	0.04	mioa2204	IF	1.61204e-04
mioal077	IE	0.04	seoa3516	IF	1.61204e-04
fcrc3958	IE	0.04	hfcr6129	IF	1.84e-04
miocl002	IE	0.04	ncrO132	IF	1.89e-O4
ncrc9440	IE	0.04	mioa8439	IF	2.36e-04
seoc3554	IE	0.04	ncr3598	IF	2.41e-04
fcrcO725	IE	0.04	fcr3936	IF	2.51e-04
seob9734	IE	0.04	mioa8864	IF	2.53933e-04
ncr2583	IE	0.04	fcrbl296	IF	2.69e-04
fcrbl77 5	IE	0.04	hfcr6033	IF	2.73e-04
fcrbl916	IE	0.04	ncrc3257	IF	2.77e-04
fcrb8872	IE	0.04	fcr4214	IF	2.91e-04
mioa8318	IE	0.04	hfcr2041	IF	2.92e-04
miob0487	IE	0.04	fcr6748	IF	3.0e-04
seoa4829	IE	0.04	mioa3321	IF	3.02e-04
seoc0513	IE	0.04	hfcr5991	IF	3.11e-04
fcrc2376	IE	0.04	seoa5554	IF	3.36e-04
fcrc2737	IE	0.04	mioa3392	IF	3.68e-04
fcrc4948	IE	0.04	mioa2213	IF	3.85e-04
ncrO451	IE	0.04	fcrb2784	IF	3.9297e-04
ncr3177	IE	0.04	fcrb8196	IF	3.9297e-O4
ncrc4882	IE	0.04	ncrb8530	IF	4.1e-04
seoa3670	IE	0.04	ncr3614	IF	4.14e-04
seob0483	IE	0.04	seocl025	IF	4.3e-04
seob5762	IE	0.04	ncr4975	IF	4.61e-04
fcr5425	IE	0.04	seob4075	IF	4.85728e-04
fcrb4388	IE	0.04	ncr7839	IF	5.15e-04
fcrb7885	IE	0.04	ncr3815	IF	5.17e-04
fcrc4848	IE	0.04	hfcr5942	IF	5.23e-04
fcrc5007	IE	0.04	ncr8843	IF	5.4e-04
mioall65	IE	0.04	fcr4212	IF	5.61e-04
mioa3987	IE	0.04	fcrb2334	IF	5.71e-04
miob2067	IE	0.04	hfcr2275	IF	5.9789e-04
miob2756	IE	0.04	mioa7465	IF	6.04e-04
miob7373	IE	0.04	miob5810	IF	6.13e-04
mioc3332	IE	0.04	hfcr5864	IF	6.22e-04
mioc7542	IE	0.04	fcrc6542	IF	6.5e-04
mioc8055	IE	0.04	fcr6708	IF	6.58e-04
miod0878	IE	0.04	mioa0311	IF	6.62324e-04
ncrc0558	IE	0.04	mioc7381	IF	6.62324e-04
ncrcll03	IE	0.04	ncrb8419	IF	6.62324e-04
ncrcl247	IE	0.04	seob4105	IF	6.64e-04
ncrc3856	IE	0.04	miobl545	IF	7.28e-04
seoa2385	IE	0.04	fcrbl633	IF	7.31e-04
seoa4708	IE	0.04	mioal27 6	IF	7.32964e-04
seoa8556	IE	0.04	seoa5849	IF	7.39e-04
seoa9705	IE	0.04	fcrb54 67	IF	7.45e-04

seoa2385	IF	~'"7T63e-C̱	seob3697	IF	1.914664e-03
seoa0418	IF	7.66e-04	fcrb2763	IF	1.928684e-03
seob8174	IF	7.87e-04	hfcr5220	IF	1.93844e-03
mioc4835	IF	8.0e-04	seob0755	IF	2.00392e-03
miob3696	IF	8.10329e-04	ncrc3650	IF	2.009196e-03
hfcr5620	IF	8.11e-04	miod3558	IF	2.053453e-03
fcr4414	IF	8.14e-04	fcrb7113	IF	2.056425e-03
fcrb4345	IF	8.23e-04	fcrb3234	IF	2.126705e-03
seob8368	IF	8.38e-04	seoc4260	IF	2.16146e-03
seob34 68	IF	8.52e-04	mioa8150	IF	2.221472e-03
mioa1704	IF	8.62e-04	ncrb3369	IF	2.227846e-03
hfcr5905	IF	8.63e-04	hfcr6141	IF	2.247103e-03
seoa3392	IF	8.67e-04	seoc0068	IF	2.284571e-03
ncr2967	IF	8.69e-04	ncr3037	IF	2.287966e-03
seob4192	IF	8.69e-04	miob5888	IF	2.294368e-03
fcr4695	IF	8.71e-04	ncr6108	IF	2.294368e-03
mioa0972	IF	8.94977e-04	seob2685	IF	2.294368e-03
mioa2156	IF	9.04e-04	miob3982	IF	2.333313e-03
ncr0847	IF	9.04e-04	ncrb0513	IF	2.334478e-03
fcrc6877	IF	9.07e-04	ncr9789	IF	2.417674e-03
fcrb64 65	IF	9.31e-04	ncrb0460	IF	2.498431e-03
hfcr3467	IF	9.62e-04	seoa5577	IF	2.502273e-03
mioa0364	IF	9.72e-04	ncr9933	IF	2.508241e-03
fcrc5136	IF	9.87503e-04	mioc0950	IF	2.588257e-03
ncrb5972	IF	1.013154e-03	seob4140	IF	2.589542e-03
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fcrb7324	IF	1.132955e-03	mioa1868	IF	2.739644e-03
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fcrb2054	IF	1.198768e-03	seob0409	IF	2.739644e-03
miob9671	IF	1.198768e-03	seob6872	IF	2.739644e-03
fcrc6228	IF	1.250123e-03	fcrb5645	IF	2.768103e-03
mioc0699	IF	1.295875e-03	seoc2633	IF	2.782919e-03
hfcr5499	IF	1.299893e-03	seob6015	IF	2.805059e-03
fcrb2246	IF	1.302022e-03	mioc7471	IF	2.877428e-03
miod1389	IF	1.318907e-03	seoa1749	IF	2.894471e-03
fcr4902	IF	1.361678e-03	seob7465	IF	2.982853e-03
fcrb2254	IF	1.375926e-03	ncr4572	IF	2.989794e-03
seoa0353	IF	1.396441e-03	ncrc6871	IF	2.989794e-03
fcrc1803	IF	1.449724e-03	fcrb6715	IF	2.992521e-03
miob37 57	IF	1.449724e-03	ncrc1411	IF	3.058649e-03
fcrb2162	IF	1.456955e-03	hfcr2930	IF	3.059881e-03
mioa3693	IF	1.472788e-03	fcr3717	IF	3.061351e-03
fcrb2744	IF	1.519135e-03	miod4019	IF	3.069637e-03
ncr6137	IF	1.552827e-03	fcrb2080	IF	3.191254e-03
fcrb6508	IF	1.580622e-03	ncr9175	IF	3.251549e-03
fcrb1397	IF	1.592036e-03	hfcr6509	IF	3.257391e-03
mioa9062	IF	1.656379e-03	mioa2292	IF	3.259973e-03
hfcr6515	IF	1.683036e-03	ncrc9850	IF	3.259973e-03
ncrc0856	IF	1.694702e-03	seob2283	IF	3.259973e-03
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mioa9891	IF	1.746709e-03	fcrb1950	IF	3.335219e-03
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miob1830	IF	1.762715e-03	ncr7945	IF	3.346416e-03
fcrb2321	IF	1.829751e-03	hfcr6043	IF	3.358515e-03
fcrc0287	IF	1.883587e-03	seob6486	IF	3.422066e-03
fcrb6868	IF	1.914664e-03	mioa0607	IF	3.45556e-03
fcrc4722	IF	1.914664e-03	fcrc5604	IF	3.457081e-03
mioa4484	IF	1.914664e-03	seob8311	IF	3.529644e-03
miob7117	IF	1.914664e-03	miob0167	IF	3.551533e-03

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seoal689	IF	3.551533e-03		seobl808	IF	4.961124e-03
seob7039	IF	3.551533e-03		seob5673	IF	4.961124e-03
fcrb2346	IF	3.631263e-03		seoa7605	IF	5.014096e-03
miob8373	IF	3.653412e-03		seob8483	IF	5.052725e-03
hfcr5473	IF	3.664884e-03		mioc4842	IF	5.15722e-03
ncr4009	IF	3.745829e-03		hfcr5522	IF	5.165867e-03
ncr8177	IF	3.751419e-03		hfcr6687	IF	5.175533e-03
miob1OO β	IF	3.759831e-03		fcrc2126	IF	5.191177e-03
ncr0609	IF	3.81321e-03		mioa5452	IF	5.191177e-03
seoa4829	IF	3.817245e-03		miob2093	IF	5.218484e-03
mioa2343	IF	3.845825e-03		ncrc0017	IF	5.259195e-03
ncrc6953	IF	3.845825e-03		ncrc3457	IF	5.259195e-03
fcr5425	IF	3.859974e-03		mioa8820	IF	5.382406e-03
ncr4485	IF	3.863747e-03		miod0456	IF	5.382406e-03
fcrb5639	IF	3.865895e-03		ncr3763	IF	5.382406e-03
mioa4753	IF	3.865895e-03		ncrbl670	IF	5.382406e-03
mioa9061	IF	3.865895e-03		fcrbl922	IF	5.52751e-03
miob0180	IF	3.865895e-03		fcr32 69	IF	5.600028e-03
miob0189	IF	3.865895e-03		fcr2417	IF	5.638591e-03
miod0187	IF	3.865895e-03		seoa5785	IF	5.696732e-03
seoa6238	IF	3.865895e-03		seoal089	IF	5.709807e-03
seobll33	IF	3.865895e-03		fcrb2510	IF	5.834736e-03
ncrc3030	IF	3.933089e-03		miob2227	IF	5.834736e-03
seoa8547	IF	3.94569e-03		mioc2561	IF	5.834736e-03
fcr3743	IF	3.964466e-03		seoa5691	IF	5.834736e-03
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seob6084	IF	4.203369e-03		seob7575	IF	6.097516e-03
fcrb6870	IF	4.204555e-03		ncrc3593	IF	6.113977e-03
mioc3958	IF	4.204555e-03		ncrb4390	IF	6.170009e-03
ncrb7482	IF	4.204555e-03		fcrb6896	IF	6.199739e-03
ncrc2780	IF	4.204555e-03		hfcr5232	IF	6.232511e-03
seoc0957	IF	4.204555e-03		ncrc5019	IF	6.25157e-03
mioc0567	IF	4.232828e-03		mioc5194	IF	6.294222e-03
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hfcr2295	IF	4.569082e-03		ncrc5079	IF	6.338658e-03
hfcrO522	IF	4.585758e-03		seob0586	IF	6.373817e-03
mioc7073	IF	4.595129e-03		seoa9889	IF	6.418044e-03
mioc2094	IF	4.690236e-03		fcr4 699	IF	6.424174e-03
raioc254 6	IF	4.717485e-03		fcr5019	IF	6.499398e-03
raiob4307	IF	4.736268e-03		miod42 69	IF	6.541189e-03
fcr7656	IF	4.778951e-03		ncrbO571	IF	6.562046e-03
ncrc9855	IF	4.823976e-03		seob7 419	IF	6.640174e-03
hfcr3674	IF	4.87135e-03		mioa2774	IF	6.667082e-03
fcrb5527	IF	4.893773e-03		ncr6401	IF	6.682138e-03
fcrb2207	IF	4.928943e-03		seoa7266	IF	6.701766e-03
mioc6156	IF	4.9342e-03		seob3699	IF	6.753484e-03
fcr7095	IF	4.961124e-03		fcrb2356	IF	6.825088e-03
mioa9147	IF	4.961124e-03		seob6380	IF	6.825088e-03
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ncrb6385	IF	4.961124e-03		hfcr5237	IF	6.840188e-03

mioa9033	IF	6.840188e-03	ncrc6846	IF	8.631293e-03
mioa9630	IF	6.840188e-03	seoa5303	IF	8.631293e-03
miob0213	IF	6.840188e-03	fcrb2133	IF	8.647588e-03
ncrc0427	IF	6.840188e-03	hfcr3149	IF	8.667419e-03
seoa6078	IF	6.840188e-03	mioc3206	IF	8.811712e-03
fcr6691	IF	6.901382e-03	ncrc3733	IF	8.814606e-03
fcrb5297	IF	6.946937e-03	miod5703	IF	8.861302e-03
fcrc3998	IF	6.962613e-03	ncrbl861	IF	8.882816e-03
ncrc9700	IF	6.962613e-03	mioc4420	IF	8.897141e-03
seob5260	IF	6.964546e-03	fcr5470	IF	8.900727e-03
ncrc4226	IF	6.994012e-03	miod5505	IF	8.920428e-03
seob4363	IF	7.032122e-03	fcrb2126	IF	9.199582e-03
ncr9502	IF	7.122344e-03	ncrcl578	IF	9.205415e-03
seoa0469	IF	7.129312e-03	hfcr3224	IF	9.219579e-03
mioa8851	IF	7.216452e-03	miod2232	IF	9.250174e-03
raioa5681	IF	7.217865e-03	seoa5578	IF	9.281899e-03
miob8947	IF	7.23621e-03	mioa6991	IF	9.31265e-03
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fcr0751	IF	7.378041e-03	seoa0420	IF	9.31265e-03
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fcrb6620	IF	7.397348e-03	seobl526	IF	9.31265e-03
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hfcr0011	IF	7.397348e-03	miob2668	IF	9.456576e-03
miob7970	IF	7.397348e-03	seocl078	IF	9.467094e-03
ncrb02 62	IF	7.397348e-03	seob2163	IF	9.524093e-03
ncrcl192	IF	7.397348e-03	ncr3040	IF	9.576948e-03
seoa7369	IF	7.397348e-03	ncrb3449	IF	9.579048e-03
seocl631	IF	7.397348e-03	ncr9429	IF	9.603911e-03
mioal417	IF	7.397472e-03	ncrc4323	IF	9.65164e-03
fcrb.307 9	IF	7.406491e-03	fcrc4307	IF	9.674174e-03
seoc0778	IF	7.492808e-03	seoa0137	IF	9.678908e-03
ncrb3238	IF	7.636087e-03	mioa2330	IF	9.685757e-03
mioc7 662	IF	7.706037e-03	fcrb2306	IF	9.694983e-03
seoa3415	IF	7.706037e-03	hfcr5228	IF	9.697553e-03
seob0442	IF	7.706037e-03	fcrb7700	IF	9.721976e-03
ncr5975	IF	7.721088e-03	hfcr5181	IF	9.747239e-03
seoa0429	IF	7.723786e-03	ncrc3544	IF	9.74833e-03
fcrb6195	IF	7.742707e-03	ncrb8518	IF	9.75683e-03
ncr8693	IF	7.754322e-03	fcrb3192	IF	9.87471e-03
fcrl404	IF	7.795263e-03	fcr5006	IF	9.917803e-03
ncrcl871	IF	7.818883e-03	fcr5199	IF	9.921817e-03
mioal304	IF	7.968902e-03	ncrb0200	IF	9.990439e-03
fcrb0979	IF	7.993636e-03	fcrbl477	IF	0.01
mioc3580	IF	7.993636e-03	fcrbl494	IF	0.01
seoa0486	IF	7.993636e-03	mioc7444	IF	0.01
seoc5627	IF	7.99363βe-03	ncr8272	IF	0.01
fcrb6574	IF	8.038684e-03	ncrc2831	IF	0.01
miocOl β1	IF	8.075165e-03	ncrc4757	IF	0.01
miod3591	IF	8.085647e-03	seoa0145	IF	0.01
hfcr5860	IF	8.106115e-03	seob0949	IF	0.01
ncrc3416	IF	8.126637e-03	seobllOO	IF	0.01
miob2287	IF	8.142773e-03	seob4793	IF	0.01
seob1419	IF	8.163409e-03	seob5812	IF	0.01
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seob2994	IF	0.01		hfcr5865	IF	0.01
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seoc4888	IF	0.01		fcrc2131	IF	0.01
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miob9248	IF	0.01		seoa7478	IF	0.01
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seob3594	IF	0.02		mioc2828	IF	0.02
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hfcrl177	IF	0.02	ncrl055	IF	0.03
fcrb0044	IF	0.02	ncr2695	IF	0.03
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mioa4770	IF	0.03		seoal480	IF	0.03
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seoa6930	IF	0.03		mioc3137	IF	0.03
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ncrb0164	IG	3.535205e-03		ncrc3604	IG	0.01
seob5 632	IG	3.535205e-03		ncrc5500	IG	0.01
seoa2233	IG	3.754676e-03		fcrb6509	IG	0.01
seob9552	IG	3.754676e-03		fcrc4408	IG	0.01
mioa0626	IG	3.986113e-03		miod4220	IG	0.01
fcrb9280	IG	4.230067e-03		ncr9105	IG	0.01
fcrc6119	IG	4.230067e-03		ncrc5150	IG	0.01
miob4 956	IG	4.230067e-03		seoal736	IG	0.01
ncr4860	IG	4.487107e-03		seoa8684	IG	0.01
fcrc4506	IG	4.757821e-03		hfcr3180	IG	0.01
miob2210	IG	4.757821e-03		ncr4189	IG	0.01
seoa5833	IG	4.757821e-03		seob3090	IG	0.01

seob9574	IG	0TO1	mioc2133	IG	0.02
seoc4135	IG	0.01	mioc3430	IG	0.02
miob7765	IG	0.01	ncrb6282	IG	0.02
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seoc4078	IG	0.01	miob5810	IG	0.02
seoc4380	IG	0.01	mioc5643	IG	0.02
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mioc3523	IG	0.01	miodl292	IG	0.02
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ncrb8207	IG	0.01	seoa5848	IG	0.02
ncrc9304	IG	0.01	seoa7383	IG	0.02
seoc3321	IG	0.01	seob4612	IG	0.02
fcrb4712	IG	0.01	seoc2681	IG	0.02
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mioc4983	IG	0.02	seoc3302	IG	0.03
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miob8583	IG	0.02	seob5214	IG	0.03

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mioc6374	IG	0.03	seocl561	IG	0.04
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miod2886	IG	0.03	fcrb4367	IG	0.04
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seob4537	IG	0.03	fcrc0591	IG	0.04
seob9292	IG	0.03	mioa2374	IG	0.04
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miob2293	IG	0.03	fcrb5903	IG	0.04
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miod7460	IG	0.03	miob4091	IG	0.04
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seob5113	IG	0.03	seoa3633	IG	0.04
seob5219	IG	0.03	seob9674	IG	0.04
seob8817	IG	0.03	seoc3554	IG	0.04
seoc2295	IG	0.03	fcrb5146	IG	0.04
fcr5509	IG	0.03	miob9010	IG	0.04
fcr6228	IG	0.03	mioc6946	IG	0.04
fcrb2318	IG	0.03	miod0455	IG	0.04
fcrb3474	IG	0.03	miod2211	IG	0.04
fcrb5259	IG	0.03	ncrc02 62	IG	0.04
fcrc2787	IG	0.03	ncrc3093	IG	0.04
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miod3132	IG	0.03	seoal480	IG	0.04
ncr8538	IG	0.03	seoa2899	IG	0.04
ncr8594	IG	0.03	seoa6118	IG	0.04
ncrc0185	IG	0.03	seoa6144	IG	0.04
ncrcl531	IG	0.03	miob8143	IH	9.6e-05
ncrc3324	IG	0.03	fcrb6191	IH	2.18748e-04
seoa4012	IG	0.03	fcrb4 995	IH	5.08096e-04
fcrb24 62	IG	0.03	hfcr4477	IH	5.46853e-04
fcrb4360	IG	0.03	miob7209	IH	7.83893e-04
fcrb5948	IG	0.03	fcrb9202	IH	9.02252e-04
miob47 60	IG	0.03	ncr2472	IH	9.02252e-04
miob7794	IG	0.03	miob7554	IH	9.67277e-04
mioc4351	IG	0.03	fcrb3330	IH	1.188468e-03
ncr2926	IG	0.03	seoc2191	IH	1.188468e-03
ncrbl365	IG	0.03	miob4308	IH	1.659667e-03
seoa5392	IG	0.03	fcrb2162	IH	2.15038e-03
seobl889	IG	0.03	mioc2451	IH	2.15038e-03
seobβ446	IG	0.03	miob8572	IH	2.291704e-03
seocl278	IG	0.03	fcrc6345	IH	2.441249e-03
fcrc0ββ1	IG	0.04	miocl203	IH	2.441249e-03
hfcrl259	IG	0.04	seob3112	IH	2.441249e-03
hfcr4497	IG	0.04	seoc3965	IH	2.599424e-03
miod7246	IG	0.04	fcrb7944	IH	3.1300βe-03
ncr3233	IG	0.04	fcrc2807	IH	3.13006e-03
ncrc5359	IG	0.04	hfcrlδ11	IH	3.32717e-03

mxod5703	IH	-~y.32717e-03	fcrc5850	IH	0.02
ncr8628	IH	3.986113e-03	fcrb4 413	IH	0.03
ncrb3957	IH	3.986113e-03	ncr8413	IH	0.03
seob8741	IH	3.986113e-03	seob4545	IH	0.03
fcr7042	IH	4.487107e-03	fcrl312	IH	0.03
mxod7421	IH	5.04282e-03	fcrc6010	IH	0.03
fcrl984	IH	5.342732e-03	mxoa9581	IH	0.03
mioc3930	IH	5.342732e-03	mxoa9649	IH	0.03
mxoc0728	IH	5.989924e-03	ncr2812	IH	0.03
seob5478	IH	7.089543e-03	seoa8851	IH	0.03
fcrc5614	IH	7.917127e-03	seob3141	IH	0.03
ncrb8343	IH	7.917127e-03	mxod5785	IH	0.03
fcr3323	IH	8.361625e-03	mxocl910	IH	0.03
fcrbl428	IH	8.827692e-03	fcrb3897	IH	0.03
mioc0669	IH	8.827692e-03	fcrb9430	IH	0.03
miod5122	IH	8.827692e-03	mxocl060	IH	0.03
ncrc0729	IH	9.316185e-03	mxod4066	IH	0.03
fcrb4226	IH	0.01	ncrb5595	IH	0.03
seoa0429	IH	0.01	seob7929	IH	0.03
seob2966	IH	0.01	fcrb4981	IH	0.03
fcrb6031	IH	0.01	fcrcl781	IH	0.03
fcrc0166	IH	0.01	mxoc2662	IH	0.03
fcrb2041	IH	0.01	ncrb8105	IH	0.03
fcrb9680	IH	0.01	seoal977	IH	0.03
hfcr3149	IH	0.01	seob0288	IH	0.03
ncr7292	IH	0.01	mxob8773	IH	0.03
ncrc6382	IH	0.01	seoa5214	IH	0.03
mioc8153	IH	0.01	fcrb2051	IH	0.04
seob3485	IH	0.01	hfcr5905	IH	0.04
mxoc7986	Ih	0.01	mxoa2073	IH	0.04
seob9406	IH	0.01	seoa3555	IH	0.04
mxob2656	IH	0.01	seob0688	IH	0.04
ncrc0217	IH	0.01	fcr7295	IH	0.04
seob5069	IH	0.01	mxoa5085	IH	0.04
mxoa6442	IH	0.01	ncrc3598	IH	0.04
seoc0945	IH	0.01	ncrc5780	IH	0.04
fcr3664	IH	0.01	seoa5787	IH	0.04
fcrb5813	IH	0.01	fcr4471	IH	0.04
mxoc3139	IH	0.01	mxob7373	IH	0.04
mxoc6937	IH	0.01	ncr5651	IH	0.04
ncrc8892	IH	0.01	ncrc5844	IH	0.04
seoa2641	IH	0.01	fcrc4916	IH	0.04
seob8321	IH	0.01	mxoc2074	IH	0.04
fcrc4380	IH	0.02	seob2959	IH	0.04
ncr6142	IH	0.02	seocl025	IH	0.04
seoa2448	IH	0.02	seoc6182	IH	0.04
seoc0499	IH	0.02	mxoa8851	IH	0.04
fcrb9686	IH	0.02	mxob9788	IH	0.04
ncr3037	IH	0.02	mxoc5695	IH	0.04
seob0497	IH	0.02	seoa9709	IH	0.04
fcrb9324	IH	0.02	seob6535	II	1.74042e-04
hfcr4007	IH	0.02	ncrc0262	II	4.7724e-04
mxoc2997	IH	0.02	seoc3965	II	5.85651e-04
ncrb4331	IH	0.02	ncr9105	II	8.16756e-04
ncrcl885	IH	0.02	seob5962	II	9.30251e-04
seob4925	IH	0.02	fcrb6202	II	1.127264e-03
mxoc0162	IH	0.02	mxoa3629	II	1.127264e-03
seoa2381	IH	0.02	fcrc3907	II	1.200832e-03
seoa5554	IH	0.02	ncr2484	II	1.200832e-03
seoc4720	IH	0.02	seob6395	II	1.200832e-03
hfcr2250	IH	0.02	fcrb8994	II	1.361048e-03
mxoa2377	IH	0.02	seoal747	II	1.44814e-03
seob4197	IH	0.02	mxoa4014	II	1.540198e-03
fcrc2670	IH	0.02	seoa5986	II	1.848665e-03

fcr0187	II	1.963134e-03	miob7136	II	0.01
fcrb2759	II	1.963134e-03	miod0126	II	0.01
mioc5113	II	1.963134e-03	hfcr5691	II	0.01
fcrb6005	II	2.083894e-03	mioa0247	II	0.01
miob0178	II	2.083894e-03	mioa8818	II	0.01
seoa3322	II	2.083894e-03	mioa8899	II	0.01
ncrc2831	II	2.486944e-03	ncrc3072	II	0.01
ncr5713	II	2.63595e-03	ncrc4033	II	0.01
ncrb8538	II	2.792845e-03	fcrb7183	II	0.01
ncrc6712	II	2.792845e-03	mioa4057	II	0.01
miod0340	II	2.957987e-03	mioc0226	II	0.01
fcrb7453	II	3.131743e-03	mioc7782	II	0.01
ncrc1374	II	3.131743e-03	ncr9337	II	0.01
miod1809	II	3.314495e-03	seoa1552	II	0.01
ncr2382	II	3.314495e-03	seoa8655	II	0.01
ncrb0513	II	3.314495e-03	fcrb5269	II	0.01
ncrc0304	II	3.314495e-03	ncr3368	II	0.01
ncrc1203	II	3.314495e-03	ncrc4259	II	0.01
mioa8318	II	3.506638e-03	seoa5766	II	0.01
seoc1934	II	3.70858e-03	mioa9323	II	0.01
fcrb1917	II	3.920744e-03	ncrc1379	II	0.01
seoa3108	II	4.623001e-03	ncrc5500	II	0.01
seob2303	II	4.623001e-03	seoa6151	II	0.01
fcrb4995	II	5.150669e-03	fcrb9289	II	0.01
mioa0647	II	5.150669e-03	fcrb9871	II	0.01
ncrb8063	II	5.150669e-03	fcrc7358	II	0.01
seoa2854	II	5.150669e-03	mioa8774	II	0.01
hfcr4176	II	5.433839e-03	ncr4384	II	0.01
mioa3913	II	5.433839e-03	seoa2801	II	0.01
ncrc1048	II	5.433839e-03	seob0928	II	0.01
fcrb8208	II	5.730596e-03	seob4333	II	0.01
miob0795	II	5.730596e-03	seob5021	II	0.01
fcrb6829	II	6.041484e-03	fcrb0131	II	0.01
miob2601	II	6.041484e-03	fcrc2231	II	0.01
seoa5396	II	6.041484e-03	hfcr2894	II	0.01
fcrb4367	II	6.367062e-03	seoa4317	II	0.01
fcrb6728	II	6.367062e-03	fcrb2318	II	0.01
fcrc2314	II	6.367062e-03	fcrb4918	II	0.01
ncrb0045	II	6.707903e-03	mioa6585	II	0.01
fcrb3664	II	7.064602e-03	ncrc0728	II	0.01
seoc2144	II	7.064602e-03	fcrb2715	II	0.01
mioa1353	II	7.437766e-03	ncr7093	II	-0.01
miob1789	II	7.437766e-03	ncr8112	II	0.01
ncr1526	II	7.437766e-03	seob100 8	II	0.01
ncrc9187	II	7.437766e-03	fcrb5000	II	0.01
fcrb4717	II	7.828021e-03	fcrb5622	II	0.01
miod5682	II	7.828021e-03	mioa4782	II	0.01
seob6139	II	7.828021e-03	ncrc1775	II	0.01
seob9193	II	7.828021e-03	fcrb1855	II	0.01
seob1052	II	8.236011e-03	fcrb2113	II	0.01
seoc7566	II	8.236011e-03	hfcr2584	II	0.01
miod0978	II	8.662397e-03	mioa2478	II	0.01
seoa5253	II	8.662397e-03	mioc2204	II	0.01
fcrb1441	II	9.107857e-03	miod58 94	II	0.01
fcrb8202	II	9.107857e-03	seoc0514	II	0.01
fcrc2472	II	9.107857e-03	fcr3856	II	0.01
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miod3160	II	9.107857e-03	fcrb7703	II	0.01
fcr7667	II	9.573086e-03	fcrc0396	II	0.01
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fcrb9069	II	9.573086e-03	miob3199	II	0.01
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mioa9154	II	0.01	fcrb1644	II	0.01

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mioa3440	II	0.01	fcr2088	II	0.02
ncrc2161	II	0.01	miob8373	II	0.02
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seoa3748	II	0.01	seoc2317	II	0.02
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seob8807	II	0.01	mioa9492	II	0.02
fcrb2796	II	0.01	seoa8351	II	0.02
fcrb5087	II	0.01	seobl219	II	0.02
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mioa5836	II	0.01	fcrc3958	II	0.02
ncr7973	II	0.01	mioc7781	II	0.02
ncrc4815	II	0.01	ncr3587	II	0.02
ncrc7016	II	0.01	ncr7666	II	0.02
seob8291	II	0.01	ncrc6796	II	0.02
seoc0951	II	0.01	fcrb6917	II	0.03
fcrl984	II	0.02	mioa9719	II	0.03
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fcrb8936	II	0.02	ncrcl884	II	0.03
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hfcrl811	II	0.02	fcrb3017	II	0.03
mioa6704	II	0.02	fcrc2280	II	0.03
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seob7082	II	0.02	mioa2290	II	0.03
fcrc6972	II	0.02	mioa6471	II	0.03
seca7129	II	0.02	miobl778	II	0.03
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fcrb6759	II	0.02	fcrbl329	II	0.03
miob8487	II	0.02	hfcrl053	II	0.03
miocl248	II	0.02	mioa4484	II	0.03
ncr2260	II	0.02	mioc2097	II	0.03
seoa2528	II	0.02	mioc9775	II	0.03
fcr0680	II	0.02	miod7246	II	0.03
fcr5120	II	0.02	seoa9656	II	0.03
fcrb5631	II	0.02	seoc5842	II	0.03
mioa2620	II	0.02	fcr2079	II	0.03
miob3911	II	0.02	fcrb9068	II	0.03
miob4057	II	0.02	fcrc6470	II	0.03
mioc2726	II	0.02	mioc7216	II	0.03
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210

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222

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ncrc5592	IQ	1.584296e-03	ncrc1751	IQ	4.026284e-03
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hfcr2536	IQ	1.605711e-03	fcrb5994	IQ	4.058782e-03
seoa5547	IQ	1.674509e-03	fcrc0654	IQ	4.058782e-03
fcr0027	IQ	1.75607e-03	mioa3548	IQ	4.058782e-03
miob2 960	IQ	1.75607e-03	miob814 6	IQ	4.058782e-03
mioc4270	IQ	1.75607e-03	ncrc9284	IQ	4.058782e-03
seoa0085	IQ	1.756632e-03	ncrc9438	IQ	4.058782e-03
seob3112	IQ	1.781563e-03	ncrc9712	IQ	4.058782e-03
fcrb6464	IQ	1.801576e-03	seoa1410	IQ	4.058782e-03
mioc3573	IQ	1.88355e-03	seob1748	IQ	4.058782e-03
seoa4601	IQ	1.912246e-03	ncrc0798	IQ	4.123577e-03
fcr2139	IQ	1.935013e-03	ncr001 β	IQ	4.130421e-03
ncrc4135	IQ	1.935013e-03	mioa2072	IQ	4.159968e-03
fcrc5850	IQ	1.963872e-03	seoa6106	IQ	4.168552e-03

224

seob0763	IQ	4.178879e-03	fcrb6738	IQ	6.800293e-03
fcrb5287	IQ	4.217128e-03	miob8825	IQ	6.800293e-03
fcrb6236	IQ	4.251227e-03	ncrb8203	IQ	6.800293e-03
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fcrb0072	IQ	4.290663e-03	seob0514	IQ	6.800293e-03
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fcrb2162	IQ	4.433463e-03	miob0644	IQ	7.214905e-03
mioa6172	IQ	4.433463e-03	hfcr0750	IQ	7.323261e-03
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seob2966	IQ	4.433463e-03	hfcr3500	IQ	7.387873e-03
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raioa6476	IQ	4.838255e-03	fcrb1496	IQ	7.708383e-03
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ncrc9700	IQ	5.275168e-03	ncr9934	IQ	8.203479e-03
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seob6189	IQ	5.603216e-03	fcrb6262	IQ	8.280361e-03
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fcrc2808	IQ	5.746317e-03	fcr3269	IQ	8.696926e-03
mioa3321	IQ	5.746317e-03	fcr4328	IQ	8.696926e-03
mioa6832	IQ	5.746317e-03	fcr4782	IQ	8.696926e-03
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mioc1416	IQ	5.746317e-03	miod3509	IQ	8.696926e-03
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fcrb2424	IQ	5.995387e-03	miob0213	IQ	8.722193e-03
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fcrb5114	IQ	6.253918e-03	miod7081	IQ	9.130039e-03
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seob6386	IQ	β.253918e-03	seob5592	IQ	9.365596e-03
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seoc4187	IQ	6.255406e-03	fcrb1995	IQ	9.423822e-03
seoc0009	IQ	6.349542e-03	fcrb5336	IQ	9.423822e-03
fcrb2926	IQ	6.355659e-03	fcrb5656	IQ	9.423822e-03
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fcrb5918	IQ	6.544455e-03	ncr3034	IQ	9.423822e-03
mioa2213	IQ	6.604566e-03	ncrc0151	IQ	9.423822e-03
fcrb4331	IQ	6.673407e-03	ncrc7131	IQ	9.423822e-03
seob2936	IQ	6.715058e-03	seoa0302	IQ	9.423822e-03
seob5899	IQ	6.749391e-03	seob3360	IQ	9.423822e-03
fcr0419	IQ	6.800293e-03	seob5099	IQ	9.423822e-03
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fcrb4506	IQ	6.800293e-03	seob6584	IQ	9.61842e-03

ncrc1941	IQ	9.709113e-03	fcrb4860	IQ	0.01
fcrb5926	IQ	9.821331e-03	fcrb5305	IQ	0.01
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mioa3945	IQ	0.01	miob6351	IQ	0.01
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seobllOO	IR	0.02	ncr6232	IR	0.03
fcrc4846	IR	0.02	ncr7923	IR	0.03
fcr2935	IR	0.02	ncrb2013	IR	0.03
seob8839	IR	0.02	ncrb3444	IR	0.03
fcrc0839	IR	0.02	ncrb4402	IR	0.03
ncrc2531	IR	0.02	ncrcl192	IR	0.03
fcrb4504	IR	0.02	ncrc4411	IR	0.03
fcrc5092	IR	0.02	seoa4167	IR	0.03
seob8311	IR	0.02	seoa5366	IR	0.03
seoc2518	IR	0.02	seob3523	IR	0.03
seoa00lO	IR	0.02	seob8242	IR	0.03
fcr2293	IR	0.03	seoc4960	IR	0.03
fcrb6141	IR	0.03	seoc5134	IR	0.03
fcrb6817	IR	0.03	miocl049	IR	0.03
fcrc5113	IR	0.03	mioc3726	IR	0.03

mioa3084	IR	0.03		mioa8622	IR	0.04
mioc3962	IR	0.03		fcr3379	IR	0.04
ncr0138	IR	0.03		fcrb9151	IR	0.04
ncr8199	IR	0.03		fcrb9620	IR	0.04
seobl158	IR	0.03		hfcr3467	IR	0.04
seobl891	IR	0.03		hfcr3615	IR	0.04
fcrb4342	IR	0.03		hfcr5237	IR	0.04
hfcr3110	IR	0.03		mioa0891	IR	0.04
seoc5006	IR	0.03		mioa5531	IR	0.04
seoc2589	IR	0.03		mioa8820	IR	0.04
fcrb5199	IR	0.03		mioc2828	IR	0.04
mioa8851	IR	0.03		ncrl712	IR	0.04
ncrb7102	IR	0.03		ncrl768	IR	0.04
ncrc3100	IR	0.03		ncr7595	IR	0.04
fcr2018	IR	0.03		ncrb3373	IR	0.04
fcr2684	IR	0.03		ncrb7211	IR	0.04
miod5198	IR	0.03		seoa0207	IR	0.04
miocl126	IR	0.03		seoa5575	IR	0.04
ncr4126	IR	0.03		seob6812	IR	0.04
seob8786	IR	0.03		fcrc2745	IR	0.04
mioa0820	IR	0.03		mioa0245	IR	0.04
fcrb5114	IR	0.03		mioa0763	IR	0.04
ncr9781	IR	0.03		hfcr3444	IR	0.04
seoa5090	IR	0.03		mioc6412	IR	0.04
fcr0990	IR	0.03		ncr3339	IR	0.04
fcr3053	IR	0.03		mioc3716	IR	0.04
fcrb5564	IR	0.03		mioc7668	IR	0.04
fcrb8870	IR	0.03		fcr4272	IR	0.04
fcrc2280	IR	0.03		fcr2306	IR	0.04
fcrc5458	IR	0.03		fcrc5482	IR	0.04
hfcr2275	IR	0.03		seoc5228	IR	0.04
hfcr3962	IR	0.03		miod3205	IR	0.04
miob8249	IR	0.03		seob9368	IR	0.04
mioc4603	IR	0.03		fcrc.2050	IR	0.04
mioc6391	IR	0.03		fcrc4157	IR	0.04
ncrc0964	IR	0.03		mioc0301	IR	0.04
ncrc5806	IR	0.03		ncrcl326	IR	0.04
ncrc5959	IR	0.03		seoa9363	IR	0.04
ncrc5972	IR	0.03		seob4804	IR	0.04
seoa4055	IR	0.03		fcrb2124	IR	0.04
seoa9735	IR	0.03		fcr3957	IR	0.04
fcrb2292	IR	0.03		fcr0253	IR	0.04
fcrb6363	IR	0.03		fcrl562	IR	0.04
ncr7151	IR	0.03		fcr5474	IR	0.04
ncrc6687	IR	0.03		fcrc5309	IR	0.04
miod0455	IR	0.03		hfcr6700	IR	0.04
ncrc6697	IR	0.03		mioaO βO1	IR	0.04
fcrc5516	IR	0.03		mioa8774	IR	0.04
mioa3018	IR	0.03		miob4368	IR	0.04
ncrc3343	IR	0.03		mioc3127	IR	0.04
fcr2167	IR	0.03		mioc6385	IR	0.04
fcrc2131	IR	0.03		mioc8635	IR	0.04
seob0219	IR	0.03		ncr8481	IR	0.04
seob6008	IR	0.03		ncr9487	IR	0.04
seob6558	IR	0.03		ncrb7167	IR	0.04
seob5458	IR	0.03		ncrc0856	IR	0.04
seocl504	IR	0.03		ncrc5738	IR	0.04
mioal971	IR	0.03		seoa4670	IR	0.04
mioc9206	IR	0.03		seobl574	IR	0.04
ncrc0262	IR	0.03		seob4105	IR	0.04
seob6139	IR	0.03		seob4498	IR	0.04
ncr9933	IR	0.03		seoc0513	IR	0.04
miod7326	IR	0.03		fcr4214	IR	0.04
miod2367	IR	0.03		fcrb6522	IR	0.04

ncrc2443	IR	0.04	seoc2030	IR	0.04
ncr6637	IR	0.04	seoa1644	IV	2.4e-07
fcrb5679	IR	0.04	fcrb4985	IV	7.42e-07
seob6028	IR	0.04	seob3307	IV	8.48e-06
seoa0238	IR	0.04	seob2775	IV	1.28e-05
fcrc0559	IR	0.04	fcrb5214	IV	2.5e-05
ncrc0803	IR	0.04	fcrb8489	IV	2.68e-05
mioc6925	IR	0.04	mioc6211	IV	3.64e-05
hfcr3224	IR	0.04	miod6234	IV	3.66e-05
ncrc0863	IR	0.04	hfcr3180	IV	4.19e-05
miob47 60	IR	0.04	fcrb2256	IV	4.65e-05
seob5954	IR	0.04	ncrc9436	IV	5.3e-05
seoa5302	IR	0.04	fcrb4981	IV	5.58e-05
fcrb6301	IR	0.04	seoa9997	IV	6.35e-05
ncrc0922	IR	0.04	seoc0009	IV	6.35e-05
fcrc5007	IR	0.04	miob9805	IV	7.39e-05
fcrc1313	IR	0.04	seoa0099	IV	8.58e-05
mioc0240	IR	0.04	seob4197	IV	8.72e-05
miod7099	IR	0.04	fcr5836	lv	9.95e-05
ncrc0341	IR	0.04	fcrc5604	IV	1.06e-04
fcr0343	IR	0.04	mioa4229	IV	1.08e-04
fcr2182	IR	0.04	fcrb4781	IV	1.15081e-04
fcrb1604	IR	0.04	fcrb2137	IV	1.21e-04
fcrb1854	IR	0.04	seob2937	IV	1.23e-04
fcrc4005	IR	0.04	fcrb3966	IV	1.27e-04
hfcr3067	IR	0.04	seob2938	IV	1.52e-04
hfcr3070	IR	0.04	hfcr2287	IV	1.53205e-04
hfcr4170	IR	0.04	miod.4564	IV	1.53205e-04
hfcr4275	IR	0.04	seoa1460	IV	1.53205e-04
mioa2165	IR	0.04	ncrc5019	IV	1.72e-04
mioa5902	IR	0.04	hfcr5969	IV	1.76303e-04
mioa8452	IR	0.04	mioa2993	IV	2.02535e-04
mioa8594	IR	0.04	miod5505	IV	2.02535e-04
miob5119	IR	0.04	fcrb5123	IV	2.14e-04
miod4407	IR	0.04	hfcr2844	IV	2.22e-04
miod7367	IR	0.04	miod7099	IV	2.26e-04
ncr4612	IR	0.04	fcr5339	IV	2.32274e-04
ncr5975	IR	0.04	miob9652	IV	2.32274e-04
ncr87 25	IR	0.04	seoa1883	IV	2.32274e-04
ncrb0090	IR	0.04	seoa5652	IV	2.32274e-04
ncrb3011	IR	0.04	seob5100	IV	2.32274e-04
ncrb7376	IR	0.04	ncrc5150	IV	2.45e-04
ncrc1653	IR	0.04	seob6217	IV	2.45e-04
ncrc6129	IR	0.04	seob7500	IV	2.45e-04
ncrc7171	IR	0.04	mioc0121	IV	2.45493e-04
seoa0064	IR	0.04	seob4306	IV	2.49e-04
seoa6238	IR	0.04	seob2950	IV	2.65e-04
seoa8266	IR	0.04	ncr2892	IV	2.65933e-04
seob8854	IR	0.04	ncrb3980	IV	2.65933e-04
seoc1539	IR	0.04	seoa6178	IV	2.65933e-04
seoc1764	IR	0.04	seoc3519	lv	2.65933e-04
seoc7498	IR	0.04	fcrc5160	IV	3.03966e-04
seob3485	IR	0.04	mioa3940	IV	3.03966e-04
ncrb84 68	IR	0.04	seob7765	IV	3.03966e-04
fcrb6005	IR	0.04	fcr3575	IV	3.19001e-04
ncrb8539	IR	0.04	miod5030	IV	3.46873e-04
ncrc5016	IR	0.04	fcrb3544	IV	3.47e-04
ncr2288	IR	0.04	seoc1235	IV	3.49e-04
fcrb1920	IR	0.04	seoa5156	IV	3.5e-04
fcrb8020	IR	0.04	ncrb0164	IV	3.54e-04
seoa4132	IR	0.04	ncrc5025	IV	3.55e-04
seoa9870	IR	0.04	seoa6661	IV	3.66e-04
seob0876	IR	0.04	ncrc4985	IV	3.68e-04
seob2990	IR	0.04	seob7622	IV	3.68e-04

fcr2860	IV	3.7e-04		fcrc7219	IV	5.78978e-04
fcr4128	IV	3.7e-04		mioc2872	IV	5.78978e-04
fcrb1539	IV	3.7e-04		ncrc2857	IV	5.78978e-04
fcrb1990	IV	3.7e-04		seob9851	IV	5.78978e-04
fcrb2330	IV	3.7e-04		mioa8380	IV	5.8e-04
fcrb3119	IV	3.7e-04		hfcr0229	IV	6.04e-04
fcrb5269	IV	3.7e-04		fcrb5351	IV	6.14e-04
fcrb5536	IV	3.7e-04		seob9614	IV	6.2227e-04
fcrb5564	IV	3.7e-04		fcrb5896	IV	6.33e-04
fcrb6251	IV	3.7e-04		fcrc2724	IV	6.33e-04
fcrb6596	IV	3.7e-04		mioc7370	IV	6.33e-04
fcrb6639	IV	3.7e-04		fcr2299	IV	6.35519e-04
fcrb7084	IV	3.7e-04		fcr3053	IV	6.55553e-04
fcrb7693	IV	3.7e-04		fcrc5137	IV	6.55553e-04
fcrc2745	IV	3.7e-04		fcrc5614	IV	6.55553e-04
fcrc2849	IV	3.7e-04		mioa3668	IV	6.55553e-04
fcrc5480	IV	3.7e-04		miod44 93	IV	6.55553e-04
miob1561	IV	3.7e-04		seoa5898	IV	6.55553e-04
miob3456	IV	3.7e-04		seoa8993	IV	6.55553e-04
miob8816	IV	3.7e-04		seoa9160	IV	6.55553e-04
miob9248	IV	3.7e-04		seob2987	IV	6.55553e-04
miob9393	IV	3.7e-04		ncrc3460	IV	7.23e-04
mioc4022	IV	3.7e-04		seob3088	IV	7.31e-04
miod5 622	IV	3.7e-04		fcrb9611	IV	7.41141e-04
ncr1545	IV	3.7e-04		fcrc5107	IV	7.41141e-04
ncrb2288	IV	3.7e-04		mioc3682	IV	7.41141e-04
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ncrc24 43	IV	3.7e-04		seoc3690	IV	7.41141e-04
ncrc5363	IV	3.7e-04		seoc1642	IV	7.46e-04
seoa2209	IV	3.7e-04		fcrb8340	IV	7.85e-04
seoa3230	IV	3.7e-04		miob8825	IV	7.85e-04
seoa7340	IV	3.7e-04		seob9869	IV	8.13e-04
seoa8997	IV	3.7e-04		mioc4161	IV	8.18e-04
seob0303	IV	3.7e-04		fcrb8668	IV	8.3666e-04
seob0763	IV	3.7e-04		fcrc5041	IV	8.3666e-04
seob0872	IV	3.7e-04		fcrc5086	IV	8.3666e-04
seob1426	IV	3.7e-04		fcrc6932	IV	8.3666e-04
seoc16β1	IV	3.7e-04		hfcr3058	IV	8.3666e-04
seoc2221	IV	3.7e-04		seob6437	IV	8.3666e-04
mioa4753	IV	3.89e-04		seob9772	IV	8.3666e-04
fcrb8114	IV	3.91e-04		seoa1318	IV	8.39e-04
seoa1749	IV	3.95201e-04		fcrb9420	IV	8.44e-04
miob9124	IV	4.2e-04		fcrb6715	IV	8.66e-04
fcrc0430	IV	4.28e-04		ncr2575	IV	9.04e-04
seoa5977	IV	4.43e-04		ncrc4875	IV	9.26e-04
fcr1772	IV	4.49e-04		miob9285	IV	9.36e-04
fcrc5577	IV	4.49548e-04		fcrb1684	IV	9.43108e-04
miob7794	IV	4.49548e-04		fcrb2113	IV	9.43108e-04
ncr4030	IV	4.49548e-04		fcrb3686	IV	9.43108e-04
ncrc0576	IV	4.49548e-04		mioa8864	IV	9.43108e-04
seoa0429	IV	4.68e-04		miob3695	IV	9.43108e-04
fcrb3680	IV	4.71e-04		miob4574	IV	9.43108e-04
ncr0133	IV	4.83e-04		miob8609	IV	9.43108e-04
fcrb6785	IV	5.10569e-04		seoa0799	IV	9.43108e-04
miob0764	IV	5.10569e-04		seob6379	IV	9.43108e-04
miod3827	IV	5.10569e-04		seoc4380	IV	9.43108e-04
ncrb0046	IV	5.10569e-04		seob6380	IV	9.5e-04
seob1362	IV	5.10569e-04		seob2994	IV	9.76e-04
seoc0149	IV	5.10569e-04		ncrc5039	IV	9.97e-04
fcrc4180	IV	5.27e-04		mioc1354	IV	1.061561e-03
fcrb3763	IV	5.67e-04		ncrb1167	IV	1.073748e-03
ncrc3283	IV	5.67e-04		seoa3895	IV	1.119756e-03
ncrc3358	IV	5.67e-04		seoc1307	IV	1.151704e-03
fcr4328	IV	5.78978e-04		seoa1737	IV	1.155164e-03

ncrc9899	IV	1.170347e-03	ncrc3598	IV	1.476515e-03
fcrb3734	IV	1.170828e-03	ncrc4076	IV	1.476515e-03
seob0133	IV	1.181737e-03	ncrc5688	IV	1.476515e-03
miob3618	IV	1.193188e-03	ncrc8988	IV	1.476515e-03
miob7106	IV	1.193188e-03	seoal856	IV	1.476515e-03
miob7 638	IV	1.193188e-03	seoa2768	IV	1.476515e-03
ncrb0328	IV	1.193188e-03	seoa3891	IV	1.476515e-03
ncrc0461	IV	1.193188e-03	seoa4681	IV	1.476515e-03
seob4555	IV	1.193188e-03	seoa5235	IV	1.476515e-03
seoc0034	IV	1.193188e-03	seoa6557	IV	1.476515e-03
mioa0192	IV	1.218739e-03	seoa7517	IV	1.476515e-03
miod4735	IV	1.252641e-03	seoa7530	IV	1.476515e-03
mioal906	IV	1.255827e-03	seoa8424	IV	1.476515e-03
mioa8973	IV	1.256375e-03	seoa9627	IV	1.476515e-03
seoa9724	IV	1.27253e-03	seoa9792	IV	1.476515e-03
miod.1316	IV	1.29623e-03	seob0370	IV	1.476515e-03
ncrc9159	IV	1.326356e-03	seobl947	IV	1.476515e-03
fcr3001	IV	1.339245e-03	seob5556	IV	1.476515e-03
fcrb8908	IV	1.339245e-03	seoc2722	IV	1.476515e-03
fcrc0591	IV	1.339245e-03	mioa8987	IV	1.493237e-03
fcrc2775	IV	1.339245e-03	miob7 319	IV	1.494352e-03
fcrc7056	IV	1.339245e-03	mioa0311	IV	1.501088e-03
hfcr2629	IV	1.339245e-03	mioa2173	lv	1.501088e-03
miob2836	IV	1.339245e-03	ncr4135	IV	1.501088e-03
mioc0669	IV	1.339245e-03	ncrb2544	IV	1.501088e-03
miod3946	IV	1.339245e-03	ncrb4166	IV	1.501088e-03
ncrc0964	IV	1.339245e-03	seoa0536	IV	1.501088e-03
ncrc9052	IV	1.339245e-03	seob8562	IV	1.501088e-03
seoa6172	IV	1.339245e-03	hfcr2670	IV	1.548822e-03
seob4734	IV	1.339245e-03	seoa5554	lv	1.560016e-03
seob7424	IV	1.339245e-03	miob9748	IV	1.637446e-03
fcr4380	IV	1.411242e-03	hfcr0263	lv	1.680177e-03
miod3914	IV	1.413142e-03	hfcr5991	IV	1.680177e-03
miod7081	IV	1.426601e-03	hfcr6613	IV	1.680177e-03
miodl323	IV	1.440791e-03	mioa3913	IV	1.680177e-03
fcrbl922	IV	1.458522e-03	ncrb37 68	IV	1.680177e-03
ncr4189	IV	1.458522e-03	fcr0748	IV	1.690349e-03
fcrl756	IV	1.476515e-03	fcrb2292	IV	1.706646e-03
fcr4494	IV	1.476515e-03	fcrc6990	IV	1.722062e-03
fcr4902	IV	1.476515e-03	seob3226	IV	1.79599e-03
fcrbl575	IV	1.476515e-03	seob2728	IV	1.80089e-03
fcrb2483	IV	1.476515e-03	hfcr3444	IV	1.835381e-03
fcrb4 470	IV	1.476515e-03	fcr2102	IV	1.844189e-03
fcrb4717	IV	1.476515e-03	fcr385β	IV	1.878078e-03
fcrb7036	IV	1.476515e-03	mioa8952	IV	1.878078e-03
fcrb9454	IV	1.476515e-03	miob8487	IV	1.878078e-03
fcrc0529	IV	1.476515e-03	miod5060	IV	1.878078e-03
fcrc5471	IV	1.476515e-03	miod5123	IV	1.878078e-03
fcrc7222	IV	1.476515e-03	ncr6344	IV	1.878078e-03
hfcr3647	IV	1.476515e-03	seoa0501	IV	1.878078e-03
mioal626	IV	1.476515e-03	seoa8239	IV	1.878078e-03
miob3307	IV	1.476515e-03	seoc5228	IV	1.878078e-03
miob9734	IV	1.476515e-03	fcrb2800	IV	1.898609e-03
miob9788	IV	1.476515e-03	ncr0634	IV	1.92683e-03
mioc0911	IV	1.476515e-03	seoa4795	IV	1.961962e-03
mioc7364	IV	1.476515e-03	seob7906	IV	1.97218e-03
miodl448	IV	1.476515e-03	fcrc5482	IV	2.019211e-03
miod5092	IV	1.476515e-03	ncrc5230	IV	2.026769e-03
miod7212	IV	1.476515e-03	seoa2805	IV	2.092754e-03
ncr0025	IV	1.476515e-03	fcr2276	IV	2.096472e-03
ncr2 967	IV	1.476515e-03	fcrb4345	IV	2.096472e-03
ncr8538	IV	1.476515e-03	fcrcl563	IV	2.096472e-03
ncrb3638	IV	1.476515e-03	fcrc5290	IV	2.096472e-03
ncrcl780	IV	1.476515e-03	fcrc6002	lv	2.096472e-03

mioa 0597	W	2.d96472e-03	ncrl712	IV	2.893252e-03
miob7 662	IV	2.096472e-03	ncrc2161	IV	2.893252e-03
miob8320	IV	2.096472e-03	seoa2391	IV	2.893252e-03
miod5010	IV	2.096472e-03	seob4145	IV	2.893252e-03
raiod5256	IV	2.096472e-03	seob9543	IV	2.893252e-03
ncr3825	IV	2.096472e-03	ncrO491	IV	2.89732e-03
ncrb6109	IV	2.096472e-03	seocl628	IV	3.049387e-03
seoa0207	IV	2.096472e-03	seob6156	IV	3.053926e-03
ncrb2092	IV	2.134438e-03	ncrc4033	IV	3.104345e-03
fcrbl992	IV	2.209983e-03	seob8287	IV	3.182459e-03
seoa3761	IV	2.225021e-03	mioc0302	IV	3.183214e-03
miod4407	IV	2.228163e-03	mioc0621	IV	3.183214e-03
seoa5433	lv	2.23127e-03	ncr2930	IV	3.183214e-03
seoa6620	IV	2.299089e-03	mioc3369	IV	3.203555e-03
fcrb3615	IV	2.337161e-03	ncrc9877	IV	3.209695e-03
fcrb3870	IV	2.337161e-03	fcrl555	IV	3.212904e-03
fcrb5296	IV	2.337161e-03	fcr4129	IV	3.212904e-03
fcrb6508	IV	2.337161e-03	fcrb5467	IV	3.212904e-03
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fcrb8215	IV	2.337161e-03	mioa7617	IV	3.212904e-03
fcrc5139	IV	2.337161e-03	miod4269	iv	3.212904e-03
miod5198	IV	2.337161e-03	ncr4656	iv	3.212904e-03
miod6560	IV	2.337161e-03	ncr7923	IV	3.212904e-03
ncr3782	IV	2.337161e-03	ncr8153	IV	3.212904e-03
ncrb0027	IV	2.337161e-03	seoal599	IV	3.212904e-03
ncrb4477	IV	2.337161e-03	seoa8912	IV	3.212904e-03
ncrb7166	IV	2.337161e-03	miocl060	IV	3.280556e-03
seoal173	IV	2.337161e-03	ncrc267 5	IV	3.327646e-03
seobl808	IV	2.337161e-03	ircr8725	IV	3.386385e-03
seob6206	IV	2.342651e-03	fcrb2713	iv	3.387122e-03
miob9087	IV	2.3779e-03	fcrb6031	IV	3.409264e-03
seob0321	iv	2.379735e-03	hfcr2536	IV	3.539273e-03
miob3594	iv	2.406345e-03	mioa9491	IV	3.555572e-03
fcrb4067	iv	2.48884e-03	fcr2940	IV	3.558947e-03
seob0937	IV	2.540573e-03	fcr5536	IV	3.563359e-03
mioc3220	IV	2.541667e-03	fcrbl731	IV	3.563359e-03
fcrb9684	IV	2.564635e-03	mioc2166	IV	3.563359e-03
seob7575	IV	2.564635e-03	ncrb0045	IV	3.563359e-03
fcr0061	IV	2.602068e-03	ncrb0074	IV	3.563359e-03
fcr3282	IV	2.602068e-03	ncrb2517	IV	3.563359e-03
fcrc0379	IV	2.602068e-03	ncrc6846	IV	3.563359e-03
fcrc4390	IV	2.602068e-03	seoal992	IV	3.563359e-03
miob5940	IV	2.602068e-03	seoa6152	IV	3.563359e-03
mioc3603	IV	2.602068e-03	seoa8177	IV	3.563359e-03
miodl377	IV	2.602068e-03	seob0058	IV	3.563359e-03
miod5771	IV	2.602068e-03	seob6133	IV	3.563359e-03
miod6324	IV	2.602068e-03	seoc0951	IV	3.563359e-03
ncrc8863	IV	2.602068e-03	seoc3659	IV	3.563359e-03
seoal598	IV	2.602068e-03	seoc4928	IV	3.563359e-03
seob4303	IV	2.602068e-03	ncr4454	IV	3.575847e-03
fcrb6929	IV	2.604001e-03	seob3882	IV	3.664302e-03
ncrc2959	IV	2.604001e-03	seob0085	IV	3.701885e-03
fcrbl337	IV	2.697142e-03	mioa6726	IV	3.711483e-03
fcrc5690	IV	2.697142e-03	ncrb864 6	IV	3.711654e-03
ncr0165	IV	2.697142e-03	seoa3717	IV	3.749508e-03
seoa6131	IV	2.721704e-03	seoa8399	IV	3.841578e-03
fcr4503	IV	2.721914e-03	fcrb5375	IV	3.881761e-03
miod4857	IV	2.870616e-03	miob9533	IV	3.895277e-03
fcrl328	IV	2.893252e-03	ncrb6742	IV	3.895528e-03
fcrc2573	IV	2.893252e-03	seoc5006	IV	3.929979e-03
fcrc5671	IV	2.893252e-03	fcrbl87 6	IV	3.9471e-03
hfcr5611	IV	2.893252e-03	fcrc2954	IV	3.9471e-03
mioc3669	IV	2.893252e-03	mioa2204	IV	3.9471e-03
miodOO δo	IV	2.893252e-03	mioa8970	IV	3.9471e-03

239

mioa9604	IV	3.9471e-03	ncrc2831	IV	4.204851e-03
miob8691	IV	3.9471e-03	ncrc2919	IV	4.204851e-03
mioc7201	IV	3.9471e-03	ncrc4907	IV	4.204851e-03
miod5310	IV	3.9471e-03	ncrc5312	IV	4.204851e-03
miod6845	IV	3.9471e-03	ncrc8841	IV	4.204851e-03
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ncrb8239	IV	3.9471e-03	ncrc9328	IV	4.204851e-03
ncrc3855	IV	3.9471e-03	ncrc9910	IV	4.204851e-03
ncrc5376	IV	3.9471e-03	seoa0388	IV	4.204851e-03
ncrc6587	IV	3.9471e-03	seoa3147	IV	4.204851e-03
seoa0256	IV	3.9471e-03	seoa6137	IV	4.204851e-03
seob7278	IV	3.9471e-03	seoa6393	IV	4.204851e-03
miob8754	IV	3.989036e-03	seoa6497	IV	4.204851e-03
seob7584	IV	4.012618e-03	seoa6598	IV	4.204851e-03
ncrb8171	IV	4.135195e-03	seoa6718	IV	4.204851e-03
miocl416	IV	4.135238e-03	seoa7157	IV	4.204851e-03
seob0046	IV	4.135238e-03	seoa8543	IV	4.204851e-03
miob9209	IV	4.157852e-03	seoa9302	IV	4.204851e-03
fcrb2308	IV	4.204851e-03	seob0034	IV	4.204851e-03
fcrb3181	IV	4.204851e-03	seob0154	IV	4.204851e-03
fcrb3201	IV	4.204851e-03	seob0426	IV	4.204851e-03
fcrb4241	IV	4.204851e-03	seobl0δ1	IV	4.204851e-03
fcrb4270	IV	4.204851e-03	seob4645	IV	4.204851e-03
fcrb4294	IV	4.204851e-03	seob5319	IV	4.204851e-03
fcrb4360	IV	4.204851e-03	seob5743	IV	4.204851e-03
fcrb4417	IV	4.204851e-03	seob5748	IV	4.204851e-03
fcrb4963	IV	4.204851e-03	seob5899	IV	4.204851e-03
fcrb5688	IV	4.204851e-03	seob7474	IV	4.204851e-03
fcrb8449	IV	4.204851e-03	seob8483	IV	4.204851e-03
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fcrcl758	IV	4.204851e-03	fcr0903	IV	4.316218e-03
fcrc2306	IV	4.204851e-03	fcrl499	IV	4.339479e-03
fcrc5583	IV	4.204851e-03	hfcr3143	IV	4.349057e-03
hfcr3022	IV	4.204851e-03	mioc3139	IV	4.358139e-03
mioal520	IV	4.204851e-03	fcrb3627	IV	4.366761e-03
mioa3321	IV	4.204851e-03	fcrb5503	IV	4.366761e-03
mioa3673	IV	4.204851e-03	fcrcl402	IV	4.366761e-03
mioa4076	IV	4.204851e-03	fcrc5771	IV	4.366761e-03
mioa4564	IV	4.204851e-03	hfcr2895	IV	4.366761e-03
mioa5085	IV	4.204851e-03	miob2668	IV	4.366761e-03
mioa5692	IV	4.204851e-03	miod5672	IV	4.366761e-03
mioa5955	IV	4.204851e-03	ncr4416	IV	4.366761e-03
miob3953	IV	4.204851e-03	ncrb0696	IV	4.366761e-03
miocl229	IV	4.204851e-03	ncrb8585	IV	4.366761e-03
mioc2209	IV	4.204851e-03	seoalβ16	IV	4.366761e-03
mioc2348	IV	4.204851e-03	seob4293	IV	4.366761e-03
mioc2451	IV	4.204851e-03	seoc0284	IV	4.366761e-03
mioc2577	IV	4.204851e-03	seoc0742	IV	4.366761e-03
mioc4112	IV	4.204851e-03	seoc4381	IV	4.366761e-03
mioc6374	IV	4.204851e-03	fcrc5007	IV	4.388153e-03
miod2128	IV	4.204851e-03	seob0185	IV	4.388153e-03
miod3160	IV	4.204851e-03	miod7414	IV	4.474241e-03
miod6048	IV	4.204851e-03	seoc2549	IV	4.489551e-03
miod6521	IV	4.204851e-03	mioc4351	IV	4.538604e-03
raiod7324	IV	4.204851e-03	mioc8481	IV	4.678627e-03
ncr0638	IV	4.204851e-03	miod4686	IV	4.740394e-03
ncrl305	IV	4.204851e-03	fcr2972	IV	4.825136e-03
ncrl550	IV	4.204851e-03	fcrc4551	IV	4.825136e-03
ncrb0207	IV	4.204851e-03	fcrc6174	IV	4.825136e-03
ncrb3348	IV	4.204851e-03	hfcr4497	IV	4.825136e-03
ncrb8538	IV	4.204851e-03	miob2285	IV	4.825136e-03
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ncrc9784	IV	4.825136e-03	fcr2935	IV	5.990508e-03
seoa4107	IV	4.825136e-03	seob6851	IV	6.032512e-03
seob4105	IV	4.825136e-03	seob7309	IV	6.107204e-03
seob7866	IV	4.825136e-03	fcrb7760	IV	6.130086e-03
seoa2899	IV	4.826733e-03	ncrc5088	IV	6.197231e-03
hfcr0489	IV	4.869783e-03	seob2661	IV	6.211987e-03
fcrb5527	IV	4.888032e-03	mioc2021	IV	6.236422e-03
seob5551	IV	4.908034e-03	seocl804	IV	6.261128e-03
mioa4077	IV	4.909178e-03	miob8463	IV	6.391219e-03
ncrc9228	IV	4.93663e-03	fcrc0959	IV	6.416508e-03
fcrb3120	IV	5.081016e-03	ncr2484	IV	6.42957e-03
ncrc4448	IV	5.161235e-03	fcrb6301	IV	6.441057e-03
hfcr5865	IV	5.255535e-03	fcrl347	IV	6.462965e-03
fcrb3715	IV	5.312325e-03	fcrb5241	IV	6.462965e-03
fcrb7852	IV	5.318621e-03	fcrc5391	IV	6.462965e-03
ncrb7027	IV	5.324125e-03	mioa0497	IV	6.462965e-03
fcrl312	IV	5.325183e-03	miob3531	IV	6.462965e-03
fcrb8542	IV	5.325183e-03	miob6713	IV	6.462965e-03
fcrc6465	IV	5.325183e-03	miod0456	IV	6.462965e-03
fcrc7046	IV	5.325183e-03	ncr2869	IV	6.462965e-03
mioal473	IV	5.325183e-03	ncr7668	IV	6.462965e-03
mioa9891	IV	5.325183e-03	ncrc0249	iv	6.462965e-03
miob0167	IV	5.325183e-03	ncrc3596	IV	6.462965e-03
miob3247	IV	5.325183e-03	ncrc4654	IV	6.462965e-03
miob5751	IV	5.325183e-03	ncrc6417	IV	6.462965e-03
miod5258	IV	5.325183e-03	seoal747	IV	6.462965e-03
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seoa4647	IV	5.325183e-03	seoa6754	IV	6.462965e-03
seob3064	IV	5.325183e-03	seoa9363	IV	6.462965e-03
seob6096	IV	5.325183e-03	seob0201	IV	6.462965e-03
seoc0369	IV	5.325183e-03	seob3170	IV	6.462965e-03
miob9163	IV	5.338918e-03	seob7729	IV	6.462965e-03
seoa6930	IV	5.338918e-03	seob9756	IV	6.462965e-03
seob2685	IV	5.358138e-03	ncrb7350	IV	6.507615e-03
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fcrb6107	IV	5.429727e-03	seoa8300	IV	6.520751e-03
seob4689	IV	5.482935e-03	fcrc4663	IV	6.53971e-03
hfcr2686	IV	5.502936e-03	hfcr3404	IV	6.5438e-03
seoa9712	IV	5.541398e-03	fcrb6363	IV	6.573178e-03
mioc2403	IV	5.546828e-03	seob5889	IV	6.584665e-03
mioc2592	IV	5.591403e-03	fcrbl767	IV	6.5959e-03
seoa4066	IV	5.634661e-03	raiob7109	IV	6.695564e-03
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fcr6748	IV	5.870026e-03	fcrbβ776	IV	6.94408e-03
fcrb5449	IV	5.870026e-03	ncrb8802	IV	6.973937e-03
fcrc0180	IV	5.870026e-03	fcr5257	IV	7.107476e-03
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raioa6556	IV	5.870026e-03	fcrb7812	IV	7.107476e-03
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miob9678	IV	5.870026e-03	miobl814	IV	7.107476e-03
mioc5182	IV	5.870026e-03	miob4803	IV	7.107476e-03
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seoa4264	IV	5.870026e-03	ncr4612	iv	7.107476e-03
seoa5138	IV	5.870026e-03	ncr7904	IV	7.107476e-03
seocl764	IV	5.870026e-03	ncrb3424	IV	7.107476e-03
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seoa9373	IV	7.107476e-03	mioa4177	IV	8.566036e-03
seob2953	IV	7.107476e-03	ncr3112	IV	8.566036e-03
seob7039	IV	7.107476e-03	ncr7382	IV	8.566036e-03
ncrc9483	IV	7.135877e-03	ncrb6903	IV	8.566036e-03
fcrbl867	IV	7.149399e-03	seoa4524	IV	8.566036e-03
fcrb6351	IV	7.150346e-03	seoc0317	IV	8.566036e-03
fcrc5024	IV	7.17138e-03	miob8707	IV	8.631338e-03
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fcrc4150	IV	7.20619e-03	seoa4608	IV	8.697131e-03
seoa0792	IV	7.296919e-03	seob627 9	iv	8.785727e-03
fcrb5438	IV	7.315319e-03	ncrc9259	IV	8.793602e-03
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seoc4824	IV	7.406399e-03	fcr4224	iv	8.856803e-03
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hfcr5942	IV	7.555731e-03	seoa7546	IV	9.109835e-03
miob4370	IV	7.592592e-03	miob3174	IV	9.150755e-03
seoa0221	IV	7.677171e-03	fcrb8161	IV	9.192222e-03
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ncrc7023	iv	7.807218e-03	mioc2110	IV	9.387964e-03
ncrc9795	IV	7.807218e-03	mioc6156	IV	9.387964e-03
seob7941	IV	7.807218e-03	miod4629	IV	9.387964e-03
seob9627	IV	7.807218e-03	miod6961	IV	9.387964e-03
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mioc0981	IV	8.229427e-03	seobll87	IV	9.387964e-03
ncrc5760	IV	8.24867e-03	seob3303	IV	9.387964e-03
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fcrb2203	IV	9.682221e-03	seob5773	IV	9.682221e-03
fcrb3024	IV	9.682221e-03	seob6560	IV	9.682221e-03
fcrb3857	IV	9.682221e-03	seoc0355	IV	9.682221e-03
fcrb3874	IV	9.682221e-03	seoc3870	IV	9.682221e-03
fcrb5537	IV	9.682221e-03	seoc4960	IV	9.682221e-03
fcrb5709	IV	9.682221e-03	seoc6703	IV	9.682221e-03
fcrb5912	IV	9.682221e-03	ncrb4248	IV	9.724687e-03
fcrb6874	IV	9.682221e-03	fcrc6877	IV	9.907979e-03
fcrb9914	IV	9.682221e-03	mioa4667	IV	0.01
fcrcl085	IV	9.682221e-03	mioc7331	IV	0.01
fcrc4722	IV	9.682221e-03	hfcr5959	IV	0.01
fcrc6452	IV	9.682221e-03	seobl862	IV	0.01
hfcr0045	IV	9.682221e-03	fcr2220	IV	0.01
hfcr5003	IV	9.682221e-03	fcrc2231	IV	0.01
mioa2413	IV	9.682221e-03	fcrc6855	IV	0.01
mioa2447	IV	9.682221e-03	fcrc6898	IV	0.01
mioa4326	IV	9.682221e-03	miob2869	IV	0.01
mioa4818	lv	9.682221e-03	miob4037	IV	0.01
miob0681	IV	9.682221e-03	miodl236	IV	0.01
miobl830	IV	9.682221e-03	ncr9324	iv	0.01
miob2686	IV	9.682221e-03	ncr9502	IV	0.01
miob3461	IV	9.682221e-03	ncrc4219	IV	0.01
miob3937	iv	9.682221e-03	ncrc4757	IV	0.01
miob4055	IV	9.682221e-03	ncrc6920	IV	0.01
miob4735	IV	9.682221e-03	ncrc9519	IV	0.01
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miob6615	IV	9.682221e-03	seoal552	IV	0.01
miob8572	IV	9.682221e-03	seobl420	IV	0.01
miob8694	IV	9.682221e-03	seobl906	IV	0.01
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mioc3206	IV	9.682221e-03	miob0207	IV	0.01
mioc4318	IV	9.682221e-03	miob8616	IV	0.01
miod4752	IV	9.682221e-03	mioc9881	IV	0.01
ncr2926	IV	9.682221e-03	miob2287	IV	0.01
ncr3690	iv	9.682221e-03	miod6437	IV	0.01
ncr3815	IV	9.682221e-03	seob5465	IV	0.01
ncr4332	IV	9.682221e-03	miod6938	IV	0.01
ncr8693	IV	9.682221e-03	hfcr2756	IV	0.01
ncrb0145	IV	9.682221e-03	seoal615	IV	0.01
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ncrc0744	IV	9.682221e-03	miocl991	IV	0.01
ncrc0972	IV	9.682221e-03	seobl213	IV	0.01
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ncrc3321	IV	9.682221e-03	ncrc β127	IV	0.01
ncrc4940	IV	9.682221e-03	fcrb4378	IV	0.01
ncrc5016	IV	9.682221e-03	fcr0107	IV	0.01
ncrc5072	IV	9.682221e-03	fcrlO βO	IV	0.01
ncrc6371	IV	9.682221e-03	fcrbl369	IV	0.01
ncrc8963	IV	9.682221e-03	fcrbl492	IV	0.01
seoal770	IV	9.682221e-03	fcrb6718	IV	0.01
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seoa3108	IV	9.682221e-03	mioa0245	IV	0.01
seoa4739	IV	9.682221e-03	mioal953	IV	0.01
seoa6315	IV	9.682221e-03	mioa8796	IV	0.01
seoa8638	IV	9.682221e-03	miob7945	IV	0.01
seob0182	IV	9.682221e-03	miob8214	IV	0.01
seob0308	IV	9.682221e-03	miob8947	IV	0.01
seob0975	IV	9.682221e-03	mioc2216	IV	0.01
seobl323	IV	9.682221e-03	miodl291	IV	0.01
seobl574	IV	9.682221e-03	miod4332	IV	0.01

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ncrc8873	IV	0.01	mioc7471	IV	0.01
seoal540	IV	0.01	fcrb5336	IV	0.01
seoa4366	IV	0.01	fcrc1745	IV	0.01
seoa4670	IV	0.01	mioc0955	IV	0.01
seobl316	IV	0.01	seoa9828	IV	0.01
seobl972	IV	0.01	ncrc3045	IV	0.01
seob3361	IV	0.01	miob2 656	IV	0.01
seocl495	IV	0.01	fcr2729	IV	0.01
seoc2681	IV	0.01	seoc0018	IV	0.01
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seob0483	iv	0.01	fcr2969	IV	0.01
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seoa8921	IV	0.01	fcr3957	IV	0.01
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ncrc5061	IV	0.01	fcrc6481	IV	0.01
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seob8854	IV	0.01	fcrb242 6	iv	0.01
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fcrb4869	IV	0.01	hfcr3413	IV	0.01
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mioc7561	IV	0.01	mioa2292	IV	0.01
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seob7419	IV	0.01	mioc5072	IV	0.01
miod3205	IV	0.01	miod0443	IV	0.01
fcrb8093	IV	0.01	miod7251	IV	0.01
fcrc4529	IV	0.01	ncr8709	IV	0.01
fcrc5060	IV	0.01	ncrb2053	IV	0.01
hfcr2934	IV	0.01	ncrb6818	IV	0.01
hfcr3500	IV	0.01	seob5454	IV	0.01
mioa0820	IV	0.01	seob8333	IV	0.01
mioa5461	IV	0.01	seocl990	IV	0.01
mioa9033	IV	0.01	fcrb7487	IV	0.01
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mioc4885	IV	0.01	seocl203	IV	0.01
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ncr4790	IV	0.01	fcrb9636	IV	0.01
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ncrc3324	IV	0.01	hfcr2601	IV	0.01
ncrc9793	IV	0.01	hfcr3144	IV	0.01
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seoa9883	IV	0.01	seob9145	IV	0.01
seob2149	IV	0.01	ncr4126	IV	0.01
seob2658	IV	0.01	fcrb5007	IV	0.01
seob3191	IV	0.01	seob6026	IV	0.01
seob7739	IV	0.01	fcrb4734	IV	0.01
seoc0957	IV	0.01	miod0625	IV	0.01
seocl217	IV	0.01	seob6835	IV	0.01
seoc4137	IV	0.01	ncr9175	IV	0.01
seoc5722	IV	0.01	fcr0824	IV	0.01
seob0755	IV	0.01	ncrc9704	IV	0.01
miod4539	IV	0.01	mioa4810	IV	0.01
seob5927	IV	0.01	ncrc8935	IV	0.01
seobl039	IV	0.01	seoa2972	IV	0.01
seoa3251	IV	0.01	fcr0707	IV	0.01
fcrc0210	IV	0.01	fcr5190	IV	0.01

fcrbl950	IV	o.oi		ncr8067	IV	0.01
fcrb6438	IV	0.01		seoa3731	IV	0.01
fcrb7 602	IV	0.01		seoa6697	IV	0.01
fcrb8208	IV	0.01		seoa7366	IV	0.01
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mioa0187	IV	0.01		seob4333	IV	0.01
mioa0684	IV	0.01		seoc0920	IV	0.01
mioa6093	IV	0.01		seoc4145	IV	0.01
mioa9154	IV	0.01		seoal720	IV	0.01
mxob8698	IV	0.01		ncrc4732	IV	0.01
mioc0090	IV	0.01		fcrc6397	IV	0.01
mioc0528	IV	0.01		mioa4606	IV	0.01
mioc3958	IV	0.01		fcr6708	IV	0.01
miodl200	IV	0.01		seob3139	IV	0.01
miod6644	IV	0.01		hfcr3634	IV	0.01
miod6671	IV	0.01		seob3009	IV	0.01
miod7225	IV	0.01		seoc4900	IV	0.01
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ncrc5149	IV	0.01		hfcr6256	lv	0.01
ncrc5653	IV	0.01		miob3018	IV	0.01
ncrc6623	IV	0.01		fcrc6826	lv	0.01
ncrc8865	IV	0.01		seob6041	IV	0.01
seoal979	IV	0.01		seob8257	IV	0.01
seoa2042	IV	0.01		seoal567	lv	0.01
seoa9873	IV	0.01		seoa6129	IV	0.01
seob2642	IV	0.01		seoa9060	IV	0.01
seob4122	IV	0.01		seoc5039	IV	0.01
seob6872	IV	0.01		miob3420	IV	0.01
seob9764	IV	0.01		ncr3297	IV	0.01
fcrb4409	IV	0.01		ncrc3624	IV	0.01
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seob7229	IV	0.01		fcrb8719	IV	0.01
seoa5698	IV	0.01		fcrc0415	IV	0.01
miod6058	IV	0.01		fcrc5169	IV	0.01
ncr2391	IV	0.01		fcrc6976	IV	0.01
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mioa3987	IV	0.01		miodll57	IV	0.01
ncr2421	IV	o.01		miod6488	IV	0.01
mioc3605	IV	0.01		ncr0547	IV	0.01
fcrb9017	IV	0.01		ncrl355	IV	0.01
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miob4760	IV	0.01		ncr6415	IV	0.01
ncrc2928	IV	0.01		ncr8866	IV	0.01
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fcrb3288	IV	0.01		seobll97	IV	0.01
fcrc2705	IV	0.01		seob4075	IV	0.01
hfcr0130	IV	0.01		seob4117	IV	0.01
mioa9062	IV	0.01		seob4270	IV	0.01
mioa9719	IV	0.01		seob9282	IV	0.01
mioa9935	IV	0.01		seocl856	IV	0.01
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miob3257	IV	0.01		fcrb4271	IV	0.01
miodl056	IV	0.01		seoa9729	IV	0.01
miod4066	IV	0.01		seoa5552	IV	0.01
ncr2176	IV	0.01		fcrc6833	IV	0.01

245

ncr5651	IV	0.01	seoa0823	IV	0.01
fcrc2429	IV	0.01	seob9435	IV	0.01
ncrc7085	IV	0.01	mioc4280	IV	0.01
mioa3963	IV	0.01	seoc4436	IV	0.01
seocl906	IV	0.01	mioa5059	IV	0.01
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fcrb3476	IV	0.01	miob0939	IV	0.01
ncrc5091	IV	0.01	fcr2582	IV	0.01
mioc0206	IV	0.01	fcrb0146	IV	0.01
ncr5709	IV	0.01	fcrbl689	IV	0.01
seoa5787	IV	0.01	fcrb2017	IV	0.01
seob6492	IV	0.01	fcrb3576	IV	0.01
seob8194	IV	0.01	fcrb3725	lv	0.01
fcr2908	IV	0.01	fcrb3760	lv	0.01
fcrb6181	IV	0.01	fcrb4266	lv	0.01
seoa2141	IV	0.01	fcrb4543	IV	0.01
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seoc0924	IV	0.01	fcrb5720	IV	0.01
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mioa0482	IV	0.01	fcrb8802	IV	0.01
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fcrb2421	IV	0.01	fcrc4054	IV	0.01
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mioa9630	IV	0.01	mioa4552	IV	0.01
miod.1532	IV	0.01	mioa5045	IV	0.01
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seoa4587	IV	0.01	miob9714	IV	0.01
seoa8783	IV	0.01	miocl560	IV	0.01
seoa9287	IV	0.01	mioc2039	IV	0.01
seob2750	IV	0.01	mioc2343	IV	0.01
seob3751	IV	0.01	mioc2806	IV	0.01
seob5658	IV	0.01	mioc4526	IV	0.01
seob9820	IV	0.01	mioc4839	IV	0.01
seoc0416	IV	0.01	mioc7381	IV	0.01
seocl311	IV	0.01	mioc7863	IV	0.01
seoc4132	IV	0.01	raiocL5884	IV	0.01
fcrb5000	IV	0.01	miod6162	IV	0.01

miod7066	IV	0.01	ncr6170	IV	0.02
ncr0007	IV	0.01	ncr9487	IV	0.02
ncrO912	IV	0.01	ncrb0262	IV	0.02
ncr3219	IV	0.01	ncrb8220	IV	0.02
ncr3649	IV	0.01	ncrcO856	IV	0.02
ncr3686	IV	0.01	ncrc4903	IV	0.02
ncr3948	IV	0.01	seoa6867	IV	0.02
ncr4384	IV	0.01	seobl144	IV	0.02
ncr5971	IV	0.01	seob2156	IV	0.02
ncr7295	IV	0.01	seob2966	IV	0.02
ncrcl498	IV	0.01	seoc0651	IV	0.02
ncrcl999	IV	0.01	seocl476	IV	0.02
ncrc4586	IV	0.01	ncrc4531	IV	0.02
ncrc8903	IV	0.01	seoc4135	IV	0.02
ncrc9039	IV	0.01	fcrc6888	IV	0.02
seoa2162	IV	0.01	hfcr3019	IV	0.02
seoa2244	IV	0.01	mioa8096	IV	0.02
seoa3417	IV	0.01	ncrc4882	IV	0.02
seoa4783	IV	0.01	seoa9959	IV	0.02
seoa5691	IV	0.01	seoal263	IV	0.02
seoa7543	IV	0.01	seoa7926	IV	0.02
seoa9209	IV	0.01	miob9348	IV	0.02
seob0971	IV	0.01	mioc2728	IV	0.02
seobl007	IV	0.01	ncrc4302	IV	0.02
seobl737	IV	0.01	miob8 650	IV	0.02
seobl770	IV	0.01	ncrb4428	IV	0.02
seob2108	IV	0.01	ncrc4188	IV	0.02
seob3154	IV	0.01	ncrc5738	IV	0.02
seob3244	IV	0.01	seobll61	IV	0.02
seob3404	IV	0.01	seob5711	IV	0.02
seob4079	IV	0.01	fcrc6989	IV	0.02
seob5004	IV	0.01	fcrOO18	IV	0.02
seob5144	IV	0.01	fcrl984	IV	0.02
seob5225	IV	0.01	fcrbl477	IV	0.02
seob9122	IV	0.01	fcrb2624	IV	0.02
seob9574	IV	0.01	mioa0763	IV	0.02
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seoc4609	IV	0.01	miob3690	IV	0.02
ncrb8752	IV	0.01	mioc2341	IV	0.02
fcrb2133	IV	0.01	mioc7774	IV	0.02
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fcrc6041	IV	0.01	ncr7351	IV	0.02
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seoal559	IV	0.01	seoa6395	IV	0.02
seoc0276	IV	0.02	seoa7115	IV	0.02
ncrcl949	IV	0.02	seoa7902	IV	0.02
seob0783	IV	0.02	seoa8547	IV	0.02
miod7243	IV	0.02	seob2148	IV	0.02
fcrO529	IV	0.02	seob5395	IV	0.02
fcrbl898	IV	0.02	seocl996	IV	0.02
fcrb2719	IV	0.02	seoc2487	IV	0.02
fcrb4542	IV	0.02	miob8373	IV	0.02
fcrb4826	IV	0.02	fcrb2437	IV	0.02
fcrb7 939	IV	0.02	miob9404	IV	0.02
hfcr4168	IV	0.02	hfcr2524	IV	0.02
miob2492	IV	0.02	seoa0238	IV	0.02
miob3898	IV	0.02	miod0500	IV	0.02
miob6226	IV	0.02	seobl787	IV	0.02
mioc2546	IV	0.02	fcrb3330	IV	0.02
mioc8206	IV	0.02	ncrc3908	IV	0.02
ncr0075	IV	0.02	fcrc6542	IV	0.02

miob6702	IV	0.02		seoa9445	IV	0.02
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seob0752	IV	0.02		miob3131	IV	0.02
fcrb2556	IV	0.02		fcrb2334	IV	0.02
seoc0203	IV	0.02		ncrc3464	IV	0.02
ncr0252	IV	0.02		miod7461	IV	0.02
ncr3483	IV	0.02		ncr2160	IV	0.02
seoa5090	IV	0.02		fcr2182	IV	0.02
seoa8902	IV	0.02		fcrb1916	IV	0.02
fcrl992	IV	0.02		fcrb9849	IV	0.02
miob9848	IV	0.02		fcrc5873	IV	0.02
seoa5766	IV	0.02		hfcrl371	IV	0.02
mioc7084	IV	0.02		mioal068	IV	0.02
fcrb8682	IV	0.02		mioa3629	IV	0.02
fcrc0287	IV	0.02		miob0189	IV	0.02
fcr0796	IV	0.02		miob3271	iv	0.02
fcrb3946	IV	0.02		miob4322	IV	0.02
fcrb5346	IV	0.02		miob6536	IV	0.02
fcrb8516	IV	0.02		miob9065	IV	0.02
fcrc2710	IV	0.02		mioc0337	IV	0.02
fcrc7057	IV	0.02		rnioc3716	IV	0.02
mioa5409	IV	0.02		mioc6987	IV	0.02
miobl493	IV	0.02		mioc7421	IV	0.02
miobl774	IV	0.02		mioc8368	IV	0.02
miob2448	IV	0.02		miod0992	IV	0.02
miob8077	IV	0.02		ncr3339	IV	0.02
mioc4089	IV	0.02		ncr8314	IV	0.02
mioc7296	IV	0.02		ncrb0624	IV	0.02
mioc8635	IV	0.02		ncrc27 63	IV	0.02
miod6731	IV	0.02		ncrc3735	IV	0.02
ncr3975	IV	0.02		ncrc9557	IV	0.02
ncr9975	iv	0.02		seoa0470	IV	0.02
ncrb6581	IV	0.02		seoalll 8	IV	0.02
ncrb8619	IV	0.02		seoa8229	IV	0.02
ncrc7038	IV	0.02		seoa8716	IV	0.02
ncrc8856	IV	0.02		seob3670	IV	0.02
seoa0145	IV	0.02		seob9241	IV	0.02
seoa0420	IV	0.02		seoc0780	IV	0.02
seob2081	IV	0.02		seocl504	IV	0.02
seob6879	iv	0.02		seob9898	IV	0.02
seob7505	IV	0.02		miob7435	IV	0.02
seob9617	IV	0.02		ncrc5631	IV	0.02
fcrb6834	IV	0.02		mioa4548	IV	0.02
fcrb8334	IV	0.02		ncr3944	IV	0.02
seobl238	IV	0.02		raioal660	IV	0.02
seob8241	IV	0.02		seob3025	IV	0.02
miob8391	IV	0.02		hfcr2890	IV	0.02
seoa5302	IV	0.02		fcrb3539	IV	0.02
ncr0045	IV	0.02		ncr8780	IV	0.02
mioa4318	IV	0.02		ncrcl310	lv	0.02
ncrc7049	IV	0.02		seob0678	IV	0.02
miod4759	IV	0.02		mioc8793	IV	0.02
fcrb3298	IV	0.02		fcrb2591	IV	0.02
ncr0761	IV	0.02		ncr4648	IV	0.02
miod5682	IV	0.02		ncrc7065	IV	0.02
seob8386	IV	0.02		fcrc6138	IV	0.02
ncr8199	IV	0.02		fcrb9407	IV	0.02
ncrb8 649	IV	0.02		ncrb3284	IV	0.02
miob94 62	IV	0.02		miob4221	IV	0.02
ncr2905	IV	0.02		seob5032	IV	0.02
mioal353	IV	0.02		ncrc0423	IV	0.02
mioa8925	IV	0.02		fcrb6990	IV	0.02
seob3131	IV	0.02		miob7268	IV	0.02
mioc8057	IV	0.02		seoa6226	IV	0.02

ncrc429b	W	0.02		ncrc2087	IV	0.02
miocl992	IV	0.02		ncr3598	IV	0.02
miocl248	IV	0.02		ncr9779	IV	0.02
miod5655	IV	0.02		mioc2536	IV	0.02
seob2555	IV	0.02		fcrc6108	IV	0.03
fcrbl733	IV	0.02		mioa4770	IV	0.03
fcrbl929	IV	0.02		ncrb2588	IV	0.03
mioa4674	IV	0.02		fcr5930	IV	0.03
mioa5695	IV	0.02		fcrlO92	IV	0.03
seob6030	IV	0.02		fcrbl962	IV	0.03
seoc2670	IV	0.02		fcrb4506	IV	0.03
miob3552	IV	0.02		fcrc5205	IV	0.03
fcrb2015	IV	0.02		hfcr2658	IV	0.03
fcrb7392	IV	0.02		mioa4064	IV	0.03
fcrc5713	IV	0.02		mioa5594	IV	0.03
hfcr2789	IV	0.02		miobl778	IV	0.03
hfcr4278	iv	0.02		miob2877	IV	0.03
mioa0577	IV	0.02		miob2900	IV	0.03
mioa6552	IV	0.02		miob4793	IV	0.03
miobl044	IV	0.02		mioc0734	iv	0.03
miob2700	IV	0.02		miocl296	iv	0.03
miob2855	IV	0.02		mioc4387	iv	0.03
miob3411	IV	0.02		mioc7444	IV	0.03
miob6098	IV	0.02		mioc9974	IV	0.03
miocl249	IV	0.02		miod74 40	IV	0.03
miod6024	IV	0.02		ncr2666	IV	0.03
miod7375	IV	0.02		ncrbl186	IV	0.03
ncr7411	IV	0.02		ncrcO807	IV	0.03
ncr9039	IV	0.02		ncrc2007	IV	0.03
ncrcl615	IV	0.02		ncrc4001	IV	0.03
ncrc3541	IV	0.02		ncrc4189	IV	0.03
ncrc3713	IV	0.02		ncrc4 467	IV	0.03
ncrc3887	IV	0.02		seoa0288	IV	0.03
ncrc4135	IV	0.02		seoa5575	IV	0.03
ncrc4996	IV	0.02		seoa7443	IV	0.03
seoa0115	IV	0.02		seoa7647	IV	0.03
seoa0511	IV	0.02		seob0376	IV	0.03
seoa2178	IV	0.02		seobllOO	IV	0.03
seoa7249	IV	0.02		seobl667	IV	0.03
seob0466	IV	0.02		seob4440	IV	0.03
seobl318	IV	0.02		seob74 65	IV	0.03
seob3189	IV	0.02		seob8817	IV	0.03
seob3415	IV	0.02		seob9001	IV	0.03
seob3564	IV	0.02		fcrb9583	IV	0.03
seob6541	IV	0.02		seob7047	IV	0.03
seocl069	IV	0.02		fcrb8649	IV	0.03
ncr7934	IV	0.02		ncr2182	IV	0.03
fcrb5313	IV	0.02		fcrcβ313	IV	0.03
seoa3852	IV	0.02		ncr2866	IV	0.03
inioa3923	IV	0.02		ncrc5758	IV	0.03
seoa4317	IV	0.02		ncrc2868	IV	0.03
fcrc2683	IV	0.02		ncrcO421	IV	0.03
fcrbl618	IV	0.02		ncrc2018	IV	0.03
fcrbl320	IV	0.02		seoc2723	IV	0.03
hfcr6141	IV	0.02		seob6584	IV	0.03
hfcr3726	IV	0.02		miob3942	IV	0.03
seob6853	IV	0.02		miod74 60	IV	0.03
hfcr3674	IV	0.02		fcrb4551	IV	0.03
mioc7986	IV	0.02		fcrbl921	IV	0.03
miod2641	IV	0.02		mioc0347	IV	0.03
fcrc4851	IV	0.02		fcrb2569	IV	0.03
fcrc5233	IV	0.02		miob0931	IV	0.03
seob2090	IV	0.02		seob7463	IV	0.03
fcrcO959	IV	0.02		fcrb7831	IV	0.03

mioc8412	IV	0.03	seob2810	IV	0.03
fcrb6650	IV	0.03	mxoc7665	IV	0.03
seobl538	IV	0.03	miob8531	IV	0.03
fcrc6476	IV	0.03	hfcrl238	IV	0.03
seoa5162	IV	0.03	ncr3701	IV	0.03
mioa0601	IV	0.03	ncrb3957	IV	0.03
miod4449	IV	0.03	seob3654	IV	0.03
miod5591	IV	0.03	seob3367	IV	0.03
seob5562	IV	0.03	fcrc5516	IV	0.03
fcrb8095	IV	0.03	fcrb6897	IV	0.03
fcrll82	IV	0.03	ncrc3536	IV	0.03
fcr2196	IV	0.03	fcrlOO4	IV	0.03
fcrbl411	IV	0.03	fcrbl741	IV	0.03
fcrb6436	IV	0.03	fcrb4918	iv	0.03
fcrb7593	IV	0.03	fcrlO98	IV	0.03
fcrc0730	IV	0.03	fcrl855	IV	0.03
fcrc5174	IV	0.03	fcr3121	IV	0.03
fcrc6010	IV	0.03	fcr3155	IV	0.03
hfcr2314	IV	0.03	fcr4699	IV	0.03
hfcr2963	IV	0.03	fcrbl724	IV	0.03
hfcr5150	IV	0.03	fcrb2554	IV	0.03
mioa4476	IV	0.03	fcrb2866	IV	0.03
miob247 8	IV	0.03	fcrb4238	IV	0.03
mioc7225	IV	0.03	fcrb4331	IV	0.03
mioc7952	IV	0.03	fcrb4788	IV	0.03
miod0708	IV	0.03	fcrb52 67	IV	0.03
miodl389	IV	0.03	fcrb6106	IV	0.03
miod5651	IV	0.03	fcrb6236	IV	0.03
miod6835	IV	0.03	fcrb6416	IV	0.03
ncr0644	IV	0.03	fcrb6636	IV	0.03
ncr3165	IV	0.03	fcrb6640	IV	0.03
ncr3830	IV	0.03	fcrb6802	IV	0.03
ncr3869	IV	0.03	fcrb6939	IV	0.03
ncr4040	lv	0.03	fcrb6968	IV	0.03
ncr8326	IV	0.03	fcrb7068	IV	0.03
ncrbO487	IV	0.03	fcrb7951	IV	0.03
ncrbl956	IV	0.03	fcrb8927	IV	0.03
ncrb5537	IV	0.03	fcrb9639	IV	0.03
ncrb7516	IV	0.03	fcrcO148	IV	0.03
ncrb8721	IV	0.03	fcrc2577	IV	0.03
ncrcl003	IV	0.03	fcrc6460	IV	0.03
ncrc3842	IV	0.03	hfcr4046	IV	0.03
ncrc6268	IV	0.03	mioa2528	IV	0.03
ncrc6996	IV	0.03	mioa298 6	IV	0.03
seoa0040	IV	0.03	iaioa5231	IV	0.03
seoa4886	IV	0.03	mioa8679	IV	0.03
seoa5382	IV	0.03	mioa8984	IV	0.03
seoa5473	IV	0.03	mioa9709	IV	0.03
seoa9421	IV	0.03	miob0942	IV	0.03
seobl891	IV	0.03	miob2593	IV	0.03
seob9635	IV	0.03	miob3668	IV	0.03
seocl694	IV	0.03	miob4975	IV	0.03
seoc2172	IV	0.03	miob7274	IV	0.03
seoc3029	IV	0.03	miob8932	IV	0.03
ncrc4991	IV	0.03	miob9274	IV	0.03
miodl714	IV	0.03	mioc0107	IV	0.03
ncr2079	IV	0.03	miocl025	IV	0.03
mioc6358	IV	0.03	miocl135	IV	0.03
mioa8484	IV	0.03	xoiocl865	IV	0.03
ncrcl775	IV	0.03	mioc3243	IV	0.03
fcrb7 616	IV	0.03	mioc3565	IV	0.03
fcr0833	IV	0.03	mioc3571	IV	0.03
seob4223	IV	0.03	xoioc7073	IV	0.03
seob2689	IV	0.03	mioc7542	IV	0.03

mioc7910	IV	0.03	mioc0741	IV	0.03
miod0884	IV	0.03	miod7011	IV	0.03
miod5190	IV	0.03	ncr6212	IV	0.03
miod6745	IV	0.03	ncr6408	IV	0.03
ncr0927	IV	0.03	ncr7345	IV	0.03
ncr2583	IV	0.03	ncr8112	IV	0.03
ncr2848	IV	0.03	ncrb2909	IV	0.03
ncr3148	IV	0.03	ncrc3777	IV	0.03
ncr5055	IV	0.03	seoa0024	IV	0.03
ncr5301	IV	0.03	seoa1419	IV	0.03
ncr9469	IV	0.03	seoa4284	IV	0.03
ncrb6432	IV	0.03	seoa4461	IV	0.03
ncrb8714	IV	0.03	seoa5894	IV	0.03
ncrc1904	IV	0.03	seob6576	IV	0.03
ncrc4263	IV	0.03	seoc6169	IV	0.03
ncrc4373	IV	0.03	ncrb1224	IV	0.03
ncrc5672	IV	0.03	fcrc2082	IV	0.03
ncrc6953	IV	0.03	fcrl150	IV	0.03
seoa0512	IV	0.03	mioc0852	IV	0.03
seoa1765	IV	0.03	mioa0485	IV	0.03
seoa2809	IV	0.03	mioc4731	IV	0.03
seoa3269	IV	0.03	seoa0396	IV	0.03
seoa5494	IV	0.03	fcr5721	IV	0.03
seoa7442	IV	0.03	fcrb7632	IV	0.03
seob0787	IV	0.03	fcrb8628	IV	0.03
seob0906	IV	0.03	ncrc5553	IV	0.03
seob1372	IV	0.03	seob3520	IV	0.03
seob1793	IV	0.03	fcr3367	IV	0.03
seob2155	IV	0.03	ncr7813	iv	0.03
seob7015	IV	0.03	mioc7807	IV	0.03
seob8311	IV	0.03	seob3731	IV	0.03
seob8742	IV	0.03	miod3197	IV	0.03
seoc3876	IV	0.03	ncr1948	IV	0.03
seoc4076	IV	0.03	ncrc0115	IV	0.03
seoc4625	IV	0.03	seoa9619	IV	0.03
fcrc2013	IV	0.03	seob4140	IV	0.03
miob7922	IV	0.03	seob2724	iv	0.03
fcrb6464	IV	0.03	fcrb3629	IV	0.03
seob6316	IV	0.03	fcrb7685	IV	0.03
seob6131	IV	0.03	mioc0915	IV	0.03
seoa7587	IV	0.03	ncrb3936	IV	0.03
seoc3511	IV	0.03	ncr4194	IV	0.03
miob3757	IV	0.03	seoc0394	IV	0.03
fcr4622	IV	0.03	fcrb5726	IV	0.03
mioc0999	IV	0.03	miod1820	IV	0.03
fcrb1582	IV	0.03	seoa9131	IV	0.03
fcrb2090	IV	0.03	fcrc2108	IV	0.03
fcrb4926	IV	0.03	mioa3392	IV	0.03
fcrb5100	IV	0.03	seob8999	IV	0.03
fcrb5603	IV	0.03	mioc5740	IV	0.03
fcrb5631	IV	0.03	ncr0212	IV	0.03
fcrb5752	IV	0.03	fcr5350	IV	0.03
fcrb6460	IV	0.03	fcr7295	IV	0.03
fcrb6986	IV	0.03	fcrb1406	IV	0.03
fcrb9096	IV	0.03	fcrb1769	IV	0.03
fcrc2830	IV	0.03	fcrb2376	IV	0.03
fcrc5359	lv	0.03	fcrb4515	IV	0.03
fcrc7243	IV	0.03	fcrb4719	IV	0.03
hfcr0501	IV	0.03	fcrb5253	IV	0.03
hfcr3821	IV	0.03	fcrb6717	IV	0.03
mioa3428	IV	0.03	fcrb6870	IV	0.03
mioa9007	IV	0.03	fcrc1654	IV	0.03
miob5888	IV	0.03	fcrc4005	IV	0.03
mioc0052	IV	0.03	fcrc4176	IV	0.03

fcrc5452	IV	0.03	hfcr0439	IV	0.04
fcrc5699	IV	0.03	hfcr3494	IV	0.04
hfcr0345	IV	0.03	hfcr5397	IV	0.04
mioal524	IV	0.03	mioa4196	IV	0.04
raioc5141	IV	0.03	mioa7 976	IV	0.04
miod7270	IV	0.03	mioa9179	IV	0.04
ncr2381	IV	0.03	miobl939	IV	0.04
ncr3380	IV	0.03	miob3314	IV	0.04
ncr4485	IV	0.03	m±ob7135	IV	0.04
ncrb3001	IV	0.03	miob9688	IV	0.04
ncrb4022	IV	0.03	mioc0486	lv	0.04
ncrb8398	IV	0.03	mioc0902	IV	0.04
ncrc5592	IV	0.03	miocl198	lv	0.04
ncrc6359	IV	0.03	mioc7668	IV	0.04
seoa0014	IV	0.03	miod0355	IV	0.04
seoa3533	IV	0.03	miod4083	IV	0.04
seoa5151	IV	0.03	ncrl876	IV	0.04
seoa8564	IV	0.03	ncr5397	IV	0.04
seob3112	IV	0.03	ncrc2110	IV	0.04
seob9285	IV	0.03	ncrc3895	IV	0.04
seoc0616	IV	0.03	ncrc4313	IV	0.04
fcr5425	IV	0.03	ncrc4620	IV	0.04
ncrcll75	IV	0.03	ncrc5207	IV	0.04
mioc4366	IV	0.03	ncrc6861	IV	0.04
seob7744	IV	0.03	ncrc8976	IV	0.04
fcr0893	IV	0.03	seoa4023	IV	0.04
miocl783	IV	0.03	seoa4600	IV	0.04
fcrb6304	IV	0.03	seoa5234	IV	0.04
seob7402	IV	0.03	seoa6621	IV	0.04
miod4522	IV	0.03	seoa6887	IV	0.04
ncr2260	IV	0.03	seob3545	IV	0.04
ncrc7016	IV	0.03	seob4263	IV	0.04
fcrb6012	IV	0.03	seob3854	IV	0.04
seob7404	IV	0.03	mioal933	IV	0.04
ncrc9766	IV	0.03	fcrclll5	IV	0.04
fcrc0695	IV	0.03	fcrb6890	IV	0.04
fcrc4649	IV	0.03	seob0325	IV	0.04
fcr2103	IV	0.03	fcrbl451	IV	0.04
fcr3528	lv	0.03	mioa0332	IV	0.04
ncr3763	IV	0.03	ncrc9758	IV	0.04
seob5493	IV	0.03	mioal603	IV	0.04
fcrc5846	IV	0.03	miod0878	IV	0.04
seoc0775	IV	0.03	fcrb5326	IV	0.04
fcrb0355	IV	0.03	ncr0238	IV	0.04
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seob4621	IV	0.03	fcrb8808	IV	0.04
fcrb5151	IV	0.03	seob2331	IV	0.04
seob0253	IV	0.03	ncrb3077	IV	0.04
seoa3847	IV	0.03	ncrc3068	IV	0.04
seob8204	IV	0.03	ncrc2415	IV	0.04
ncrc5744	IV	0.04	hfcr5905	IV	0.04
seob6751	IV	0.04	miod7429	IV	0.04
seob3378	IV	0.04	seob0031	IV	0.04
fcrb8485	IV	0.04	mioblll5	IV	0.04
seoa3245	IV	0.04	ncr2486	IV	0.04
mioc5103	IV	0.04	seoa2936	IV	0.04
ncrc5423	IV	0.04	fcrb5087	IV	0.04
fcrll03	IV	0.04	ncr5472	IV	0.04
fcr0503	IV	0.04	seob9872	IV	0.04
fcr4226	IV	0.04	ncrc9004	IV	0.04
fcrb4388	IV	0.04	ncrcl608	IV	0.04
fcrb5440	IV	0.04	seob3067	IV	0.04
fcrc5483	IV	0.04	seoa5637	IV	0.04
fcrc6089	IV	0.04	seoc4762	IV	0.04

mioal392	IV	0.04	mioa2072	IV	0.04
mioc8682	IV	0.04	fcrb9401	IV	0.04
seob6812	IV	0.04	seob8261	IV	0.04
seob8425	IV	0.04	fcrb9444	IV	0.04
fcrO997	IV	0.04	miob434 6	IV	0.04
fcr2573	IV	0.04	ncrc9681	IV	0.04
fcr3043	IV	0.04	seob6758	IV	0.04
fcr3286	IV	0.04	seobl133	IV	0.04
fcr4743	IV	0.04	mioa4 632	IV	0.04
fcrbl466	IV	0.04	miob4378	IV	0.04
fcrb2859	IV	0.04	miod4342	IV	0.04
fcrb3080	IV	0.04	fcrb4721	IV	0.04
fcrc0810	IV	0.04	fcrb7931	IV	0.04
fcrcl790	IV	0.04	seoa0219	IV	0.04
fcrc2407	IV	0.04	fcr3287	IV	0.04
fcrc3907	IV	0.04	seoa0065	IV	0.04
fcrc4277	IV	0.04	ncrcO262	IV	0.04
fcrc6519	IV	0.04	seocl025	IV	0.04
hfcr3660	IV	0.04	seoa7075	IV	0.04
hfcr3902	IV	0.04	miod0676	IV	0.04
mioa0132	IV	0.04	seob6446	IV	0.04
mioal380	IV	0.04	ncrcl168	IV	0.04
mioa2327	IV	0.04	ncrbl420	IV	0.04
mioa2818	IV	0.04	seoa7605	IV	0.04
mioa4542	IV	0.04	seobl757	IV	0.04
mioa5508	IV	0.04	fcrl421	iv	0.04
mioa9649	IV	0.04	fcrO553	IV	0.04
miob3696	IV	0.04	fcrO793	IV	0.04
mioc0861	IV	0.04	fcrb2102	IV	0.04
mioc2173	IV	0.04	fcrb2592	IV	0.04
mioc2634	lv	0.04	fcrb7331	IV	0.04
mioc5736	IV	0.04	fcrcO795	IV	0.04
mioc6252	IV	0.04	hfcr6245	IV	0.04
mioc8531	IV	0.04	mioa9127	IV	0.04
miod2079	IV	0.04	mioa9147	IV	0.04
ncr6326	IV	0.04	miob2 601	IV	0.04
ncr7286	IV	0.04	miob8308	IV	0.04
ncrc3030	IV	0.04	mioc0760	IV	0.04
ncrc6118	IV	0.04	mioc3316	IV	0.04
ncrc8881	IV	0.04	mioc4552	IV	0.04
seoa2381	IV	0.04	mioc5013	IV	0.04
seoa6223	IV	0.04	ncr0808	IV	0.04
seob3548	IV	0.04	ncr6256	IV	0.04
seob3886	IV	0.04	ncrb6261	IV	0.04
seob6467	IV	0.04	ncrc5569	IV	0.04
seob6882	IV	0.04	ncrc6193	IV	0.04
seoc5002	IV	0.04	ncrc7043	IV	0.04
seoa9566	IV	0.04	ncrc9023	IV	0.04
mioa3997	IV	0.04	seoa7077	IV	0.04
seob6008	IV	0.04	seob0514	IV	0.04
fcr0706	IV	0.04	seobl231	IV	0.04
fcrb4712	IV	0.04	seoc0098	IV	0.04
fcrc6234	IV	0.04	seocl593	IV	0.04
mioc0649	IV	0.04	fcrcO686	IV	0.04
fcrc5898	IV	0.04	mioa5773	IV	0.04
ncrc9304	IV	0.04	seoa7078	IV	0.04
ncrc3073	IV	0.04	ncrcl140	IV	0.04
hfcr3375	IV	0.04	mioc7662	IV	0.04
ncrb2798	IV	0.04	fcrb3192	IV	0.04
ncrc2756	IV	0.04	fcrb937 6	IV	0.04
seob5954	IV	0.04	seob5734	IV	0.04
seoc2192	IV	0.04	seocl934	IV	0.04
ncr0920	IV	0.04	seoa3639	IV	0.04
mioal585	IV	0.04	fcrc4729	IV	0.04

fcrc5071	IV	0.04	ncrc0110	IX	3.19e-04
seob1319	IV	0.04	fcrb5002	IX	4.23e-04
ncr5168	IV	0.04	seoc4941	IX	4.34e-04
seob8660	IV	0.04	mioa3486	IX	4.38e-04
fcrb5177	IV	0.04	seoa5849	IX	4.42e-04
ncrc9530	IV	0.04	mioc6412	IX	4.44e-04
fcrb2150	IV	0.04	seob0514	IX	4.46e-04
fcrl562	IV	0.04	miob7985	IX	4.6e-04
ncr3118	IV	0.04	ncrb8396	IX	4.66e-04
ncrb2360	IV	0.04	ncrc6479	IX	4.81e-04
fcrb8940	IV	0.04	ncr7973	IX	4.85e-04
fcrb1446	IV	0.04	hfcr3183	IX	4.88e-04
seoa7295	IV	0.04	seoc2336	IX	4.94e-04
miob8146	IV	0.04	seoa9792	IX	5.09e-04
seoa7223	IV	0.04	fcrc5384	IX	5.1e-04
ncrc1349	IV	0.04	mioc2694	IX	5.18e-04
fcrb2763	IV	0.04	mioc0276	IX	5.28e-04
fcrb6747	IV	0.04	seoa5528	IX	5.38e-04
mioa0869	IV	0.04	seoa9287	IX	5.45e-04
fcrb1312	IV	0.04	seoc4380	IX	6.07e-04
inioc4834	IV	0.04	miod6162	IX	6.12e-04
miob9463	IX	3.09e-07	miod6147	IX	6.2e-04
fcrb6460	IX	8.2e-07	seob9847	IX	6.68e-04
fcrb5214	IX	1.04e-06	ncrb8220	IX	7.0e-04
fcrc2954	IX	1.71e-06	miocl025	IX	7.12e-04
fcrb3521	IX	4.14e-06	miob7850	IX	7.18e-04
seoc4135	IX	4.17e-06	seoc4971	IX	7.29e-04
mioc2039	IX	4.36e-06	fcrc5671	IX	7.36e-04
ncrc9739	IX	1.55e-05	seoc4381	IX	7.54e-04
miob9748	IX	1.57e-05	seoc4132	IX	8.23e-04
miod6961	IX	1.97e-05	mioc2514	IX	8.4e-04
fcrb4981	IX	3.15e-05	hfcr2890	IX	9.18e-04
ncrb0074	IX	3.45e-05	seob4515	IX	9.22e-04
ncr5651	IX	3.54e-05	seoa7249	IX	9.92e-04
fcrb9611	IX	3.57e-05	seocl675	IX	1.027088e-03
fcrl169	IX	3.6e-05	ncr0133	IX	1.05172e-03
seoa9389	IX	3.72e-05	miob9805	IX	1.156892e-03
ncrcl140	IX	3.81e-05	seoa9042	IX	1.158959e-03
mioc2094	IX	3.97e-05	fcrb9849	IX	1.227294e-03
mioa7 976	IX	4.01e-05	miob9831	IX	1.263821e-03
ncrc4931	IX	4.13e-05	hfcr4489	IX	1.264067e-03
miod6134	IX	4.56e-05	ncr4673	IX	1.338044e-03
fcrc5482	IX	6.75e-05	fcrb7852	IX	1.34787e-03
fcrb6664	IX	7.04e-05	fcrc2573	IX	1.392684e-03
fcrc6826	IX	8.11e-05	seob3307	IX	1.439442e-03
miob8825	IX	9.0e-05	fcrc2429	IX	1.448948e-03
fcrb5855	IX	9.3e-05	fcrc5850	IX	1.455176e-03
fcrb7055	IX	1.05e-04	seob7739	IX	1.615597e-03
mioa2377	IX	1.05e-04	seob9756	IX	1.643381e-03
miod5894	IX	1.05e-04	miob9340	IX	1.687009e-03
ncrb8207	IX	1.06e-04	fcrb6469	IX	1.855844e-03
mioc0206	IX	1.09e-04	mioc2388	IX	1.89135e-03
seob9884	IX	1.24e-04	seocl561	IX	1.894109e-03
fcrc5452	IX	1.31e-04	fcrc2082	IX	1.897321e-03
miob7391	IX	1.32e-04	seob5726	IX	1.905436e-03
fcrc6174	IX	1.37e-04	seoc3690	IX	1.972802e-03
ncr8725	IX	1.44e-04	miob5434	IX	1.991278e-03
fcrb4985	IX	1.54e-04	fcrb7722	IX	2.042772e-03
mioc2021	IX	1.67e-04	ncr7286	IX	2.102525e-03
miob9614	IX	1.96e-04	miod7440	IX	2.149284e-03
seoc4928	IX	2.44e-04	seob2990	IX	2.157379e-03
fcrc4390	IX	2.52e-04	miob8026	IX	2.175933e-03
ncrb6903	IX	2.65e-04	ncr7292	IX	2.18489e-03
mioc0107	IX	2.66e-04	seoa6314	IX	2.307802e-03

seob5894	IX	2.313364e-03	miob9734	IX	5.792326e-03
ncrb8189	IX	2.367011e-03	seoc0369	IX	5.805794e-03
ncrcl003	IX	2.407968e-03	mioa4109	IX	5.817645e-03
mioa8945	IX	2.42255e-03	seoa2300	IX	5.821371e-03
fcrb7829	IX	2.47234 βe-03	ncrc5375	IX	5.858062e-03
mioa6091	IX	2.513592e-03	fcrc6697	IX	5.891967e-03
mioc5740	IX	2.55859e-03	seob5240	IX	5.949332e-03
fcrc5107	IX	2.595298e-03	fcrc6898	IX	6.102757e-03
miod5703	IX	2.632329e-03	mioa4241	IX	6.102757e-03
fcrbl724	IX	2.708883e-03	πioa4245	IX	6.102757e-03
mioa8778	IX	2.736234e-03	fcrc5355	IX	6.12294e-03
seoc4436	IX	2.749055e-03	seob4117	IX	6.194381e-03
miod2330	IX	2.768542e-03	fcrc4663	IX	6.213654e-03
miob9652	IX	2.773751e-03	seob4067	IX	6.309695e-03
seob9772	IX	2.86764e-03	seob9872	IX	6.406966e-03
seoc4137	IX	2.947972e-03	miocl088	IX	6.432154e-03
mioc7304	IX	2.982148e-03	mioa4229	IX	6.506475e-03
seocO61β	IX	3.08994e-03	seocl432	IX	6.543795e-03
ncr3262	IX	3.123964e-03	fcrcl654	IX	6.589598e-03
ncrc5653	IX	3.128058e-03	miod5256	IX	6.623723e-03
fcrb5892	IX	3.158737e-03	mioal276	IX	6.669969e-03
mioc3261	IX	3.213251e-03	mioc7362	IX	6.725393e-03
mioc4534	IX	3.321646e-03	fcr2573	IX	6.784327e-03
seocl234	IX	3.414658e-03	fcrb5664	IX	6.784327e-03
hfcr4278	IX	3.439806e-03	raiob3314	IX	6.784327e-03
seoa8979	IX	3.449583e-03	ncr3642	IX	6.784327e-03
seoc4316	IX	3.511847e-03	seoa2272	IX	6.784327e-03
seob9635	IX	3.531378e-03	seob7409	IX	6.845355e-03
fcr2821	IX	3.593158e-03	miob5770	IX	6.867442e-03
hfcr3500	IX	3.661254e-03	fcrb3466	IX	6.869457e-03
fcr4460	IX	3.716445e-03	seoc2264	IX	6.927055e-03
hfcr4423	IX	3.861046e-03	seob6558	IX	7.08591e-03
miob5098	IX	3.86132e-03	ncrb4039	IX	7.185379e-03
mioal473	IX	3.958354e-03	fcrb3966	IX	7.202047e-03
mioal674	IX	3.965367e-03	seoa0393	IX	7.211102e-03
seocl495	IX	4.012337e-03	ncr7967	IX	7.237351e-03
miob2448	IX	4.055375e-03	ncrb0164	IX	7.331552e-03
miob8694	IX	4.122295e-03	fcrc5458	IX	7.482432e-03
fcrb3219	IX	4.135014e-03	ncr2575	IX	7.600247e-03
seoal615	IX	4.220231e-03	ncrc4295	IX	7.627364e-03
ncrcO644	IX	4.272698e-03	seobl318	IX	7.684111e-03
seoc0551	IX	4.340756e-03	fcrcO651	IX	7.699131e-03
fcrb8973	Œ	4.544509e-03	fcrb6676	IX	7.719631e-03
fcrc2710	IX	4.544509e-03	fcrb8536	IX	7.719631e-03
ncr5027	IX	4.544509e-03	mioa8987	IX	7.719631e-03
seoa8960	IX	4.572134e-03	seoa0158	IX	7.719631e-03
seoa5746	IX	4.64536e-03	seoa5933	IX	7.719631e-03
fcrb4937	IX	4.846074e-03	seoa8239	IX	7.719631e-03
seocl078	IX	4.922685e-03	seob5395	IX	7.719631e-03
seoc0284	IX	5.076305e-03	miodl718	IX	8.034424e-03
mioc7952	IX	5.107777e-03	mioc3549	IX	8.160964e-03
fcrb6718	IX	5.108963e-03	seoc4260	IX	8.363871e-03
fcrbl657	IX	5.130499e-03	mioa3572	IX	8.372463e-03
ncrcO852	IX	5.205548e-03	seob9820	IX	8.388595e-03
ncrc5947	IX	5.205548e-03	mioal948	IX	8.415321e-03
seoa3359	IX	5.205548e-03	seoc2191	IX	8.433017e-03
miod4522	IX	5.216795e-03	seoa7295	IX	8.440913e-03
fcrb8187	IX	5.219732e-03	fcrb7118	IX	8.491482e-03
fcr5509	IX	5.329617e-03	mioc2872	IX	8.598424e-03
seob0918	IX	5.361021e-03	fcrl337	IX	8.6173e-03
miob7136	IX	5.450311e-03	ncrc3593	IX	8.6173e-03
miod5198	IX	5.472689e-03	ncr0420	IX	8.718204e-03
ncrb2588	IX	5.579537e-03	seoa2472	IX	8.76281e-03
mioc5179	IX	5.601724e-03	fcrb6693	IX	8.764987e-03

fcrb7072	IX	8.764987e-03		fcrb6015	IX	0.01
hfcr6256	IX	8.764987e-03		fcrc7047	IX	0.01
miob3898	IX	8.764987e-03		mioal392	IX	0.01
miob5855	IX	8.764987e-03		ncr5522	IX	0.01
miod0625	IX	8.764987e-03		fcrb9520	IX	0.01
ncrc6813	IX	8.764987e-03		fcrc0959	IX	0.01
seoa0511	IX	8.764987e-03		mioc7216	IX	0.01
mioc4843	IX	8.811966e-03		fcrb3841	IX	0.01
mioc6211	IX	8.904696e-03		ncr0107	IX	0.01
seob6256	IX	9.02746e-03		miob9325	IX	0.01
mioc0121	IX	9.163151e-03		seoal036	IX	0.01
fcrb8730	IX	9.169484e-03		mioa5231	IX	0.01
fcrb9858	IX	9.20164e-03		fcrbl909	IX	0.01
seoa4324	IX	9.212171e-03		mioa3084	IX	0.01
miob8947	IX	9.337599e-03		ncr6415	IX	0.01
miob2533	IX	9.353064e-03		mioal293	IX	0.01
mioa8831	IX	9.438617e-03		mioa6721	IX	0.01
seoc2295	IX	9.611484e-03		miob3696	IX	0.01
miod7081	IX	9.612646e-03		mioc2928	IX	0.01
seob0906	IX	9.62924e-03		ncrb3352	IX	0.01
ncrc4448	IX	9.709792e-03		ncrcl331	IX	0.01
fcrc2613	IX	9.72871e-03		ncrc3596	IX	0.01
mioc6997	IX	9.740521e-03		seoa5382	IX	0.01
seocl628	IX	9.782377e-03		seoa6203	IX	0.01
miob4 668	IX	9.926235e-03		seob8291	IX	0.01
fcrc5139	IX	9.930809e-03		seob0058	IX	0.01
fcrc5468	IX	9.930809e-03		mioc2443	IX	0.01
miob3591	IX	9.930809e-03		seoc0778	IX	0.01
iaioc3107	IX	9.930809e-03		miob8639	IX	0.01
ncrcl192	IX	9.930809e-03		fcr3599	IX	0.01
seoa6661	IX	9.930809e-03		hfcr2250	IX	0.01
seoc4609	IX	9.930809e-03		ncrc3520	IX	0.01
miob7 290	IX	9.963579e-03		rtioa3528	IX	0.01
ncr2861	IX	0.01		fcrbl788	IX	0.01
miob9185	IX	0.01		fcrb3782	IX	0.01
seoa2381	IX	0.01		fcrb9856	IX	0.01
fcrb5122	IX	0.01		ncrc3773	IX	0.01
miob8992	IX	0.01		ncrc4728	IX	0.01
ncr8481	IX	0.01		seoa6129	IX	0.01
seob5209	IX	0.01		seob3654	IX	0.01
ncrc5877	IX	0.01		miod4998	IX	0.01
ncrc6439	IX	0.01		seob2283	IX	0.01
ncrb3317	IX	0.01		mioa2343	IX	0.01
ncrc6708	IX	0.01		seocl218	IX	0.01
miob6029	IX	0.01		seocl236	IX	0.01
seoal598	IX	0.01		mioc0226	IX	0.01
fcrb8719	IX	0.01		mioc2074	IX	0.01
mioa8925	IX	0.01		fcrcl607	IX	0.01
seob6856	IX	0.01		seoc2681	IX	0.01
miob6373	IX	0.01		seoc0009	IX	0.01
fcrc5086	IX	0.01		fcrl347	IX	0.01
seocl203	IX	0.01		fcrb7 661	IX	0.01
seoc0843	IX	0.01		fcrc7046	IX	0.01
fcrc6916	IX	0.01		hfcrll37	IX	0.01
hfcr2314	IX	0.01		miob5699	IX	0.01
rnioc2 634	IX	0.01		miod0992	IX	0.01
ncr5557	IX	0.01		ncrb7177	IX	0.01
ncrb0220	IX	0.01		ncrc3011	IX	0.01
seoa8822	IX	0.01		ncrc4772	IX	0.01
fcr2986	IX	0.01		seob8807	IX	0.01
miod6835	IX	0.01		seob9368	IX	0.01
miod4564	IX	0.01		seoal736	IX	0.01
ncr8538	IX	0.01		ncrc2600	IX	0.01
miob7531	IX	0.01		mioa8096	IX	0.01

mioc3573	IX	0.01		ncrc6359	IX	0.01
fcrb8 910	IX	0.01		seoa4012	IX	0.01
mioc8474	IX	0.01		fcrc1115	IX	0.01
miod5957	IX	0.01		mioc2911	IX	0.01
seob7278	IX	0.01		seoa4181	IX	0.01
fcrb3153	IX	0.01		seoa9482	IX	0.01
seob1191	IX	0.01		seob7250	IX	0.01
miob9820	IX	0.01		miob1115	IX	0.01
fcrb1750	IX	0.01		mioc2451	IX	0.01
ncrc2 686	IX	0.01		ncrc2227	IX	0.01
fcrb3870	IX	0.01		seob7047	IX	0.01
miod6068	IX	0.01		ncrb0653	IX	0.01
miod7408	IX	0.01		miod5707	IX	0.01
fcr2299	IX	0.01		ncrc5113	IX	0.01
seob9851	IX	0.01		seob1730	IX	0.01
fcr2054	IX	0.01		seob8261	IX	0.01
fcr4727	IX	0.01		ncr1876	IX	0.01
fcrb7573	IX	0.01		seob2657	IX	0.01
fcrc0522	IX	0.01		seoc0499	IX	0.01
fcrc1402	IX	0.01		miod6090	IX	0.01
mioa3668	IX	0.01		raioc0424	IX	0.01
raioa5452	IX	0.01		miob2841	IX	0.01
miob9348	IX	0.01		ncrc5423	IX	0.01
ncr3148	IX	0.01		seoa9959	IX	0.01
ncr6943	IX	0.01		miob8691	IX	0.01
ncrb3980	IX	0.01		seoa1318	IX	0.01
ncrc0249	IX	0.01		mioc3648	IX	0.02
seoa8870	IX	0.01		mioc6949	IX	0.02
seoc8283	IX	0.01		ncr9919	IX	0.02
fcrb4248	IX	0.01		seoc0491	IX	0.02
ncr3248	IX	0.01		fcrb6929	IX	0.02
ncrc9412	IX	0.01		fcrb8020	IX	0.02
seoc1264	IX	0.01		fcrb9649	IX	0.02
ncrc3321	IX	0.01		ncr3123	IX	0.02
seob0263	IX	0.01		miob5752	IX	0.02
mioc1379	IX	0.01		miod1195	IX	0.02
mioc4103	IX	0.01		seob8660	IX	0.02
ncrc7131	IX	0.01		fcr2220	IX	0.02
fcrb9843	IX	0.01		fcr5257	IX	0.02
fcrc6642	IX	0.01		fcrb6508	IX	0.02
fcrc2817	IX	0.01		fcrc1986	IX	0.02
ncrc2675	IX	0.01		mioa0497	IX	0.02
miob3594	IX	0.01		mioa1524	IX	0.02
hfcr5009	IX	0.01		mioa3160	IX	0.02
mioc34 92	IX	0.01		miod1846	IX	0.02
seob8260	IX	0.01		miod6904	IX	0.02
fcrb4926	IX	0.01		ncr3496	IX	0.02
fcrb6870	IX	0.01		ncr3782	IX	0.02
fcrb8855	IX	0.01		ncr8067	IX	0.02
seoc0651	IX	0.01		ncr8794	IX	0.02
fcrc4722	IX	0.01		ncrc8976	IX	0.02
fcrb6410	IX	0.01		seoa2058	IX	0.02
ncr7668	IX	0.01		seoa3322	IX	0.02
mioa4564	IX	0.01		seoa3737	IX	0.02
fcrb5547	IX	0.01		seob0339	IX	0.02
fcrb8516	IX	0.01		seoa8902	IX	0.02
fcrb8728	IX	0.01		fcrb8570	IX	0.02
fcrc0130	IX	0.01		mioc0940	IX	0.02
hfcr3144	IX	0.01		seoc4720	IX	0.02
mioa0597	IX	0.01		hfcr2955	IX	0.02
mioa8173	IX	0.01		fcrb7 693	IX	0.02
ncr4 656	IX	0.01		seoa3761	IX	0.02
ncrb0045	IX	0.01		ncr3276	IX	0.02
ncrb0749	IX	0.01		ncrc6407	IX	0.02

fcrb6750	IX	0.02	mioa3467	IX	0.02
mioa5059	IX	0.02	fcrb4727	IX	0.02
seoc1948	IX	0.02	fcrc5604	IX	0.02
ncrc7092	IX	0.02	fcr0503	IX	0.02
ncr3233	IX	0.02	fcr2972	IX	0.02
fcr1853	IX	0.02	fcrb1δo1	IX	0.02
seob1574	IX	0.02	fcrb2199	IX	0.02
mioc7668	IX	0.02	fcrb2510	IX	0.02
ncrc0259	IX	0.02	fcrc5169	IX	0.02
mioc0052	IX	0.02	fcrc6997	IX	0.02
miod5030	IX	0.02	hfcr3149	IX	0.02
seob7369	IX	0.02	miob7836	IX	0.02
fcrcl085	IX	0.02	miob9688	IX	0.02
miob3531	IX	0.02	mioc6417	IX	0.02
miod0195	IX	0.02	miod207 9	IX	0.02
xaiod0977	IX	0.02	ncrb2085	IX	0.02
miocl7066	IX	0.02	ncrb5909	IX	0.02
ncrc0217	IX	0.02	ncrc5316	IX	0.02
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miocl416	IX	0.02	seoa3711	IX	0.02
fcrb9686	IX	0.02	ncrb02 62	IX	0.02
seoc1235	IX	0.02	seob8029	IX	0.02
fcrc0166	IX	0.02	mioc4270	IX	0.02
fcrbl689	IX	0.02	fcrb8765	IX	0.02
seob0047	IX	0.02	miod5372	IX	0.02
fcrb2113	IX	0.02	miod5190	IX	0.02
fcrb2350	IX	0.02	seob6417	IX	0.02
fcrb5964	IX	0.02	ixioc3040	IX	0.02
hfcr4168	IX	0.02	ncr3701	IX	0.02
hfcr6687	IX	0.02	mioa6807	IX	0.02
mioa2851	IX	0.02	mioa4014	IX	0.02
mioa6442	IX	0.02	seob57 92	IX	0.02
miob4090	IX	0.02	fcrb4383	IX	0.02
miob8487	IX	0.02	fcrb4817	IX	0.02
miob8817	IX	0.02	fcrc3488	IX	0.02
miod3776	IX	0.02	mioa5085	IX	0.02
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ncr5537	IX	0.02	seoa0256	IX	0.02
seoa2824	IX	0.02	seob4560	IX	0.02
seoc0317	IX	0.02	seoc5156	IX	0.02
seoc5002	IX	0.02	fcrb2484	IX	0.02
ncrc5230	IX	0.02	fcrc5391	IX	0.02
miod7337	IX	0.02	iniob0644	IX	0.02
fcrc2131	IX	0.02	ncr5529	IX	0.02
miob8531	IX	0.02	ncrb8419	IX	0.02
fcr0824	IX	0.02	seob8911	IX	0.02
mioa4810	IX	0.02	ncr3934	IX	0.02
ncrb4248	IX	0.02	ncr3465	IX	0.02
fcrb5287	IX	0.02	fcr2542	IX	0.02
fcrc6228	IX	0.02	ncr6344	IX	0.02
miob6702	IX	0.02	miob7443	IX	0.02
seoa3147	IX	0.02	seoc2904	IX	0.02
seob2642	IX	0.02	fcrb7584	IX	0.02
seoc0220	IX	0.02	seob0678	IX	0.02
fcrb3595	IX	0.02	fcrb0044	IX	0.02
miob9274	IX	0.02	fcr3001	IX	0.02
ncr3306	IX	0.02	fcrb2012	IX	0.02
ncrc0864	IX	0.02	fcrb4506	IX	0.02
fcr6264	IX	0.02	fcrb6099	IX	0.02
fcrbl729	IX	0.02	fcrb6779	IX	0.02
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fcrb2254	IX	0.02	fcrc6345	IX	0.02
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miob6098	IX	0.02		miod748 6	IX	0.03
miob7 945	IX	0.02		ncr3380	IX	0.03
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ncr4612	IX	0.02		ncr8337	IX	0.03
ncr4946	IX	0.02		ncrcl502	IX	0.03
ncrb6357	IX	0.02		ncrc2919	IX	0.03
ncrc5887	IX	0.02		seoa0799	IX	0.03
ncrc9704	IX	0.02		seoa3121	IX	0.03
seoa4040	IX	0.02		seoa7086	IX	0.03
seoa5778	IX	0.02		seoa7157	IX	0.03
seoa9129	IX	0.02		seob6872	IX	0.03
seoa2830	IX	0.02		seob9092	IX	0.03
fcrb2849	IX	0.02		seoc0394	IX	0.03
fcrb5918	IX	0.02		seoa7605	IX	0.03
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ncr3163	IX	0.02		seoal056	IX	0.03
seob8562	IX	0.02		fcr2164	IX	0.03
seoc4022	IX	0.02		fcrb4224	IX	0.03
ncrc6423	IX	0.02		fcrb8915	IX	0.03
seoa2134	IX	0.02		fcrc5699	IX	0.03
seoa9131	IX	0.02		miob8704	IX	0.03
fcrc5007	IX	0.02		mioc0950	IX	0.03
seob3053	IX	0.02		miod4512	IX	0.03
miob4126	IX	0.02		ncr4219	IX	0.03
miob8191	IX	0.02		ncrb4402	IX	0.03
ncrl780	IX	0.02		ncrcl595	IX	0.03
ncrb4319	IX	0.02		ncrc2533	IX	0.03
fcrb5470	IX	0.02		ncrc5919	IX	0.03
fcrb6009	IX	0.02		seoa7897	IX	0.03
ncrc3953	IX	0.02		seobl770	IX	0.03
ncrc6953	IX	0.02		seob2797	IX	0.03
seoal501	IX	0.02		miob2067	IX	0.03
mioa9179	IX	0.02		miod7324	IX	0.03
fcr2106	IX	0.02		ncrb8451	IX	0.03
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fcrb2457	IX	0.03		seob3182	IX	0.03
fcrb5360	IX	0.03		seob3520	IX	0.03
fcr6748	IX	0.03		seoc6169	IX	0.03
mioa4792	IX	0.03		fcrb3874	IX	0.03
miob4352	IX	0.03		hfcr0676	IX	0.03
fcrb2596	IX	0.03		fcrc2126	IX	0.03
seoa8486	IX	0.03		fcrb9355	IX	0.03
fcr7171	IX	0.03		ncr2472	IX	0.03
fcrb2189	IX	0.03		miod4066	IX	0.03
fcrb2754	IX	0.03		mioc3419	IX	0.03
fcrb3726	IX	0.03		ncr2176	IX	0.03
fcrb3920	IX	0.03		fcrcl745	IX	0.03
fcrb4515	IX	0.03		fcrc6084	IX	0.03
fcrb5037	IX	0.03		ncr8780	IX	0.03
fcrb9184	1X	0.03		miod6947	IX	0.03
fcrc0959	IX	0.03		hfcr5611	IX	0.03
fcrc6651	IX	0.03		miob7209	IX	0.03
mioa2620	IX	0.03		ncrc5724	IX	0.03
raioa4548	IX	0.03		fcr0787	IX	0.03
mioa5202	IX	0.03		seoaβ111	IX	0.03
mioa5409	IX	0.03		fcr4743	IX	0.03
mioa9792	IX	0.03		fcrb461β	IX	0.03
miob4091	IX	0.03		fcrb6011	IX	0.03
miob5873	IX	0.03		fcrcl886	IX	0.03
miob6597	IX	0.03		fcrc4896	IX	0.03
mioc0337	IX	0.03		hfcr3615	IX	0.03

hfcr5991	IX	0.03	seobl273	IX	0.03
mioa0246	IX	0.03	seob2689	IX	0.03
mioa2537	IX	0.03	seoc0034	IX	0.03
mioa8607	IX	0.03	seoc4888	IX	0.03
miob6401	IX	0.03	ncrcll93	IX	0.03
miob917 6	IX	0.03	ncrbll79	IX	0.03
mioc0669	IX	0.03	fcrc βoll	IX	0.03
mioc5443	IX	0.03	ncr3869	IX	0.03
miod3254	IX	0.03	fcrb37 60	IX	0.03
ncr2892	IX	0.03	miob2287	IX	0.03
ncr4030	IX	0.03	mioc7863	IX	0.03
ncr4572	IX	0.03	miodl236	IX	0.03
ncr5397	IX	0.03	ncrc0185	IX	0.03
ncrc3927	IX	0.03	ncrc9947	IX	0.03
seoa0024	IX	0.03	seob0085	IX	0.03
seobl513	IX	0.03	seob2259	IX	0.03
seob307 6	IX	0.03	seob βooo	IX	0.03
seob9543	IX	0.03	fcrb4869	IX	0.03
seoc4955	IX	0.03	fcrb6220	IX	0.03
seoa7250	IX	0.03	fcrc5577	IX	0.03
ncrb3056	IX	0.03	miob3348	IX	0.03
seocl898	IX	0.03	miocll25	IX	0.03
fcrb2077	IX	0.03	ncrcl421	IX	0.03
fcrb2449	IX	0.03	ncrc3100	IX	0.03
mioa2185	IX	0.03	ncrc5079	IX	0.03
ncrc3377	IX	0.03	fcrb8340	IX	0.03
seob4734	IX	0.03	fcrb8700	IX	0.03
fcrb3017	IX	0.03	ncr7934	IX	0.03
fcrb4533	IX	0.03	seoc3965	IX	0.03
fcrb4921	IX	0.03	seob8104	IX	0.03
miob4 822	IX	0.03	seoa5691	IX	0.03
miob8143	IX	0.03	fcrc4150	IX	0.03
mioc7904	IX	0.03	seob2775	IX	0.03
seob0298	IX	0.03	seob8065	IX	0.03
mioc2188	IX	0.03	mioc3042	IX	0.04
hfcr4114	IX	0.03	seoc0149	IX	0.04
ncr2930	IX	0.03	hfcr2616	IX	0.04
miob2968	IX	0.03	seoa3717	IX	0.04
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miod4 686	IX	0.03	fcrb3086	IX	0.04
seob2974	IX	0.03	fcrc6374	IX	0.04
seob3564	IX	0.03	fcrb4249	IX	0.04
fcr3173	IX	0.03	fcrb5702	IX	0.04
fcrbl898	IX	0.03	fcr4784	IX	0.04
fcrb2546	IX	0.03	fcrb5100	IX	0.04
fcrb5077	IX	0.03	fcrc0213	IX	0.04
fcrb5754	IX	0.03	fcrcl431	IX	0.04
fcrb9499	IX	0.03	raioa0311	IX	0.04
fcrc2830	IX	0.03	miob2355	IX	0.04
fcrc5154	IX	0.03	miob9053	IX	0.04
fcrc5282	IX	0.03	mioc0902	IX	0.04
miob8657	IX	0.03	mioc3958	IX	0.04
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mioc5226	IX	0.03	ncr3268	IX	0.04
miod4493	IX	0.03	ncr4215	IX	0.04
ncrl β92	IX	0.03	ncr4550	IX	0.04
ncrb0624	IX	0.03	ncr7136	IX	0.04
ncrcl361	IX	0.03	ncr8234	IX	0.04
seoa0420	IX	0.03	ncr9502	IX	0.04
seoal924	IX	0.03	ncrbll86	IX	0.04
seoa6178	IX	0.03	ncrb2517	IX	0.04
seoa6654	IX	0.03	ncrb8539	IX	0.04

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ncrc1885	IX	0.04	hfcr4477	IX	0.04
ncrc2529	IX	0.04	mioa2478	IX	0.04
ncrc3713	IX	0.04	mioa2993	IX	0.04
ncrc4016	IX	0.04	mioa4542	IX	0.04
ncrc4740	IX	0.04	mioa5511	IX	0.04
ncrc6371	IX	0.04	mioa6262	IX	0.04
ncrc9819	IX	0.04	miob3307	IX	0.04
seoa0085	IX	0.04	miob7106	IX	0.04
seoa5894	IX	0.04	mioc5661	IX	0.04
seob0266	IX	0.04	miod0080	IX	0.04
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seob4579	IX	0.04	ncr5668	IX	0.04
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seob9193	IX	0.04	ncrc7005	IX	0.04
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seoc3487	IX	0.04	seoa3269	IX	0.04
ncrc9401	IX	0.04	seoa3989	IX	0.04
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mioa3469	IX	0.04	seob0700	IX	0.04
miob1789	IX	0.04	seob4498	IX	0.04
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seoa7296	IX	0.04	seob6020	IX	0.04
seob2139	IX	0.04	fcrb5199	IX	0.04
miocl808	IX	0.04	miob4760	IX	0.04
seoc4625	IX	0.04	miob9010	IX	0.04
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seoc2622	IX	0.04	mioa2319	IX	0.04
hfcr4488	IX	0.04	seob0831	IX	0.04
mioc4219	IX	0.04	ncrb2798	IX	0.04
seobl133	IX	0.04	ncrc6659	IX	0.04
miod5369	IX	0.04	seob5523	IY	5.44e-07
fcrb6643	IX	0.04	seob6853	IY	1.12e-06
mioc7260	IX	0.04	ncrcO262	IY	3.34e-06
ncrc4001	IX	0.04	seoc4484	IY	3.37e-06
ncrc9525	IX	0.04	mioal585	IY	8.5e-06
mioc4575	IX	0.04	ncrb2092	IY	8.5e-06
hfcr4497	IX	0.04	seob8368	IY	8.5e-06
mioa3399	IX	0.04	seocl203	IY	8.5e-06
mioa6545	IX	0.04	mioa3160	IY	8.88e-06
fcrbl562	IX	0.04	seob8911	IY	8.88e-06
fcrb6928	IX	0.04	miod5349	IY	9.46e-06
fcrc6631	IX	0.04	ncrb7292	IY	9.46e-06
miob6518	IX	0.04	miob0986	IY	1.09e-05
ncrc4079	IX	0.04	fcr2103	IY	1.38e-05
seoa3287	IX	0.04	fcrb3252	IY	1.38e-05
seocl804	IX	0.04	fcrc2090	IY	1.38e-05
fcrcO148	IX	0.04	miob6562	IY	1.38e-05
fcrO788	IX	0.04	mioc3430	IY	1.38e-05
fcrb3474	IX	0.04	mioc6997	IY	1.38e-05
fcrb6986	IX	0.04	ncr0025	IY	1.38e-05
fcrb7 440	IX	0.04	seoa2970	IY	1.38e-05
fcrb7443	IX	0.04	seoa9373	IY	1.38e-05

seocl593	IY	1.38e-05	ncrl387	IY	2.99713e-04
fcrb84 65	IY	2.03e-05	hfcr2984	IY	3.16106e-04
ncrc2888	IY	2.54e-05	ncrc9286	IY	3.16256e-04
fcr0107	IY	2.57e-05	fcrb7830	IY	3.26091e-04
fcrbl922	IY	2.57e-05	miob8694	IY	3.26091e-04
miod2665	IY	2.61e-05	seoal480	IY	3.26091e-04
fcrb7588	IY	2.76e-05	seob3189	IY	3.26091e-04
miod6238	IY	2.76e-05	seoc6703	IY	3.26091e-04
ncrc4597	IY	2.76e-05	ncr3163	IY	3.28388e-04
seoa4518	IY	2.76e-05	mioa3856	IY	3.33477e-04
seoc2029	IY	2.76e-05	ncr0258	IY	3.45611e-04
fcrb8504	IY	3.07e-05	fcr6530	IY	3.55737e-04
fcrc3358	IY	3.07e-05	fcr7403	IY	3.55737e-04
miob9209	IY	3.07e-05	fcrb2040	IY	3.55737e-04
miob9831	IY	3.07e-05	fcrb5326	IY	3.55737e-04
mioc6055	IY	3.07e-05	fcrc0076	IY	3.55737e-04
miod4142	IY	3.Q7e-05	mioal626	IY	3.55737e-04
miod4759	IY	3.07e-05	miob4308	IY	3.55737e-04
seoc2824	IY	3.07e-05	ncr0251	IY	3.55737e-04
seoa7608	IY	3.33e-05	ncr0660	IY	3.55737e-04
fcrc3993	IY	3.64e-05	seoal413	IY	3.55737e-04
ncr0176	IY	3.64e-05	seoc2976	IY	3.55737e-04
seob7432	IY	3.64e-05	miod7421	IY	3.63889e-04
ncrc8835	IY	4.15e-05	seoc2696	IY	3.63889e-04
fcrc5831	IY	4.31e-05	miocl203	IY	3.76683e-04
hfcr5970	IY	4.31e-05	fcrb9671	IY	3.8591e-04
seob6506	IY	4.31e-05	miod2556	IY	4.17224e-04
seob9960	IY	4.31e-05	seob0523	IY	4.48203e-04
miob8301	IY	5.82e-05	fcrb4616	IY	4.63478e-04
miob9533	IY	5.82e-05	fcrb7808	IY	4.91846e-04
ncr9956	IY	5.82e-05	hfcr0525	IY	4.91846e-04
seocl99β	IY	5.82e-05	mioa2580	IY	4.91846e-04
mioc4343	IY	6.73e-05	ncrc3045	IY	4.91846e-04
seoc0513	IY	6.97e-05	ncrc4308	IY	4.91846e-04
seoa0288	IY	7.47e-05	seob4584	IY	4.91846e-04
fcr3101	IY	8.62e-05	ncr4180	IY	5.07682e-04
seob0200	IY	8.62e-05	miob3725	IY	5.09895e-04
miob7099	IY	1.04084e-04	fcrb2933	IY	5.21225e-04
fcrb7488	IY	1.0904e-04	fcrb3476	IY	5.21225e-04
ncrb4339	IY	1.11567e-04	fcrb9420	IY	5.21225e-04
ncrc2080	IY	1.16828e-04	mioc2021	IY	5.21225e-04
seoa4670	IY	1.16828e-04	ncrb3541	IY	5.21225e-04
seob9346	IY	1.34696e-04	seoc0619	IY	5.2253e-04
fcrll73	IY	1.52868e-04	fcrb3140	IY	5.6899e-04
ncrcl044	IY	1.52868e-04	ncrc3598	IY	5.6899e-04
seoc0920	IY	1.57502e-04	seobl853	IY	5.6899e-04
fcr3367	IY	1.63813e-04	ncrc6994	IY	6.36489e-04
ncrc4555	IY	1.63813e-04	seoa7652	IY	6.36489e-04
fcrc5937	IY	1.72728e-04	fcrb8419	IY	6.59196e-04
miob8812	IY	1.72728e-04	mioc8507	IY	6.59196e-04
ncr5971	IY	1.72728e-04	seoa0783	IY	6.59196e-04
seoa8636	IY	1.72728e-04	seob4925	IY	6.68896e-04
mioclll7	IY	2.74004e-04	mioc2891	IY	6.8067e-04
miob9404	IY	2.94903e-04	miod0894	IY	7.11238e-04
mioc9205	IY	2.94903e-04	ncrb5972	IY	7.11238e-04
fcr2700	IY	2.97843e-04	fcrc7112	IY	7.18906e-04
fcr3861	IY	2.97843e-04	miod27 92	IY	7.42567e-04
fcrb3497	IY	2.97843e-04	seob3158	IY	7.46102e-04
fcrb8614	IY	2.97843e-04	seoc7785	IY	7.91035e-04
mioc0121	IY	2.97843e-04	fcr0253	IY	8.82072e-04
mioc3618	IY	2.97843e-04	seobl660	IY	8.82072e-04
seoa6203	IY	2.97843e-04	seob2283	IY	8.82072e-04
seob5748	IY	2.97843e-04	fcrb4226	IY	9.26956e-04
seocl236	IY	2.97843e-04	fcrc3416	IY	9.27715e-04

mioa2173	IY	9.48317e-04	seob5379	IZ	0.01
ncrc3554	IY	9.48767e-04	seobl513	IZ	0.01
ncrcl310	IY	9.51038e-04	hfcr3622	IZ	0.01
fcrb6478	IY	9.59421e-04	fcrc6563	IZ	0.01
ncrb6903	IY	1.001243e-03	miob4055	IZ	0.02
fcrb7495	IY	1.020987e-03	seoa7509	IZ	0.02
fcrb8422	IY	1.020987e-03	seoa6573	IZ	0.02
fcrc7219	IY	1.020987e-03	fcrb4696	IZ	0.02
seoa2949	IY	1.020987e-03	seob4805	IZ	0.02
seob4589	IY	1.071134e-03	seocl425	IZ	0.02
fcrbl492	IY	1.115562e-03	mioc0630	IZ	0.02
hfcr2238	IY	1.115562e-03	seob9614	IZ	0.02
seob8741	IY	1.163938e-03	seob8501	IZ	0.02
mioa2073	IY	1.200074e-03	miob2687	IZ	0.02
ncrc0749	IY	1.200074e-03	ncr3778	IZ	0.02
mioc9896	IY	1.350122e-03	mioa4014	IZ	0.02
fcrb2859	IY	1.393429e-03	seob3751	IZ	0.02
fcrb3010	IY	1.393429e-03	mioc0950	IZ	0.02
fcrb8432	IY	1.393429e-03	fcrb4542	IZ	0.02
fcrc6279	IY	1.393429e-03	seocl230	IZ	0.02
miob3560	IY	1.393429e-03	fcrb8504	IZ	0.02
miob9551	IY	1.393429e-03	fcrc5351	IZ	0.02
miodl606	IY	1.393429e-03	fcrb5254	IZ	0.02
seoa8716	IY	1.393429e-03	mioc3580	IZ	0.02
fcrb3592	IY	1.430199e-03	mioa7299	IZ	0.02
ncrc5230	IY	1.443394e-03	miod4184	IZ	0.02
fcrb3015	IY	1.449119e-03	seoc2173	IZ	0.02
ncrb8273	IY	1.449119e-03	seoa6358	IZ	0.02
seoa9389	IY	1.449119e-03	fcr5222	IZ	0.02
ncr9664	IY	1.538333e-03	ncr4452	IZ	0.02
miob3161	IY	1.541015e-03	mioc0347	IZ	0.02
miob0644	IY	1.545534e-03	ncrc9483	IZ	0.02
seocl872	IY	1.553693e-03	mioa2333	IZ	0.02
ncr3815	IY	1.615964e-03	seoc4103	IZ	0.02
seob2085	IY	1.615964e-03	mioal062	IZ	0.03
fcrb9588	IZ	9.42678e-04	ncrc4600	IZ	0.03
ncrc9280	IZ	1.36307e-03	seobl316	IZ	0.03
fcrc6826	IZ	1.61351e-03	seobl617	IZ	0.03
seoal559	IZ	1.740315e-03	miod0884	IZ	0.03
ncrb8392	IZ	4.140103e-03	fcrl844	IZ	0.03
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ncrc9469	IZ	4.849487e-03	fcrc0604	IZ	0.03
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fcrbl950	IZ	7.501979e-03	miodl714	IZ	0.03
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seoc2475	IZ	7.691468e-03	mioc7818	IZ	0.03
miodl505	IZ	8.44159e-03	mioa4057	IZ	0.03
seoa2391	IZ	9.669113e-03	fcrb9871	IZ	0.03
ncr0210	IZ	9.776908e-03	miob3928	IZ	0.03
fcrb9751	IZ	9.809161e-03	ncr3963	IZ	0.03
seob5773	IZ	0.01	miob3396	IZ	0.03
seoal552	IZ	0.01	mioal4 94	IZ	0.03
seoall04	IZ	0.01	miocl198	IZ	0.03
miob3354	IZ	0.01	miob4975	IZ	0.04
seobl793	IZ	0.01	mioa3629	IZ	0.04
seoc0951	IZ	0.01	fcr0665	IZ	0.04
seob3154	IZ	0.01	fcrbl382	IZ	0.04
mioc2619	IZ	0.01	mioa0890	IZ	0.04
seob7584	IZ	0.01	ncr3434	IZ	0.04
ncrb2395	IZ	0.01	hfcr3500	IZ	0.04
fcrb7070	IZ	0.01	fcrbl992	IZ	0.04
seob6413	IZ	0.01	mioa8774	IZ	0.04
ncrcll03	IZ	0.01	fcrb8208	IZ	0.04

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seob4147	IZ	0.04		fcrb5254	2	0.02
fcr0990	IZ	0.04		mioc3580	2	0.02
fcrc7240	IZ	0.04		mioa7299	2	0.02
fcr4460	IZ	0.04		miod4184	2	0.02
miob3044	IZ	0.04		seoc2173	2	0.02
fcr4885	IZ	0.04		seoa6358	2	0.02
miob0178	IZ	0.04		fcr5222	2	0.02
seobl420	IZ	0.04		ncr4452	2	0.02
miobl493	IZ	0.04		mioc0347	2	0.02
seob9750	IZ	0.04		ncrc9483	2	0.02
fcrc2431	IZ	0.04		mioa2333	2	0.02
mioa9541	IZ	0.04		seoc4103	2	0.02
mioc8264	IZ	0.04		mioal062	2	0.03
fcrb9588	2	9.42678e-04		ncrc4600	2	0.03
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seoc2475	2	7.691468e-03		mioc7818	2	0.03
miodl505	2	8.44159e-03		mioa4057	2	0.03
seoa2391	2	9.669113e-03		fcrb9871	2	0.03
ncr0210	2	9.776908e-03		miob3928	2	0.03
fcrb9751	2	9.809161e-03		ncr3963	2	0.03
seob5773	2	0.01		miob3396	2	0.03
seoal552	2	0.01		mioal494	2	0.03
seoall04	2	0.01		miocl198	2	0.03
miob3354	2	0.01		miob4975	2	0.04
seobl793	2	0.01		mioa3629	2	0.04
seoc0951	2	0.01		fcr0665	2	0.04
seob3154	2	0.01		fcrbl382	2	0.04
mioc2619	2	0.01		mioa0890	2	0.04
seob7584	2	0.01		ncr3434	2	0.04
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seobl513	2	0.01		seob4147	2	0.04
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seoa7509	2	0.02		miob3044	2	0.04
seoa6573	2	0.02		fcr4885	2	0.04
fcrb4696	2	0.02		miob0178	2	0.04
seob4805	2	0.02		seobl420	2	0.04
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mioc0630	2	0.02		seob9750	2	0.04
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seob3751	2	0.02		fcr3181	4A	7.35e-08
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seocl230	2	0.02		ncrb2092	4A	8.18e-07
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mioa1354	4A	3.05e-04	seoa5235	4A	4.4e-04
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mioa4076	4A	3.32e-04	seob4545	4A	4.4e-04
seob8204	4A	3.32e-04	seob4579	4A	4.52e-04
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mioa1473	4A	2.857258e-03		fcrb1689	4A	3.33795e-03
mioa7323	4A	2.857258e-03		seob3869	4A	3.338116e-03
miob2855	4A	2.857258e-03		fcrb4003	4A	3.338435e-03
ncr0132	4A	2.857258e-03		fcrb9420	4A	3.338435e-03
ncr2484	4A	2.857258e-03		fcrc1019	4A	3.338435e-03
ncr4539	4A	2.857258e-03		hfcr6640	4A	3.338435e-03
ncrb2091	4A	2.857258e-03		ncr0335	4A	3.338435e-03
ncrb3585	4A	2.857258e-03		ncr0547	4A	3.338435e-03
ncrb6453	4A	2.857258e-03		seoa3761	4A	3.338435e-03
ncrc0292	4A	2.857258e-03		seoc1264	4A	3.3522e-03
ncrc5553	4A	2.857258e-03		fcrc6566	4A	3.377492e-03
seoa0172	4A	2.857258e-03		seob1906	4A	3.378608e-03
seoa0511	4A	2.857258e-03		ncrb7600	4A	3.419412e-03
seoa1263	4A	2.857258e-03		ncr0847	4A	3.475969e-03
seoa2428	4A	2.857258e-03		fcr6881	4A	3.501009e-03
seoa4017	4A	2.857258e-03		hfcr5691	4A	3.501009e-03
seoa4264	4A	2.857258e-03		hfcr6716	4A	3.501009e-03
seoa7295	4A	2.857258e-03		mioa1427	4A	3.501009e-03
seoa9814	4A	2.857258e-03		mioa8998	4A	3.501009e-03
seob0418	4A	2.857258e-03		miob4793	4A	3.501009e-03
seob0810	4A	2.857258e-03		ncr1802	4A	3.501009e-03
seob4039	4A	2.857258e-03		ncr3713	4A	3.501009e-03
seob5213	4A	2.857258e-03		ncrb1802	4A	3.501009e-03
seob5441	4A	2.857258e-03		ncrb6087	4A	3.501009e-03
ncrc2119	4A	2.863581e-03		ncrc3536	4A	3.501009e-03
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mioa4196	4A	2.903424e-03		seoa0844	4A	3.501009e-03
seoa3245	4A	2.907675e-03		seoa2442	4A	3.501009e-03
miob3477	4A	2.939546e-03		seoa2641	4A	3.501009e-03
seoc4416	4A	2.952743e-03		seoa3007	4A	3.501009e-03
fcrc6826	4A	2.964202e-03		seoa8610	4A	3.501009e-03
fcrb44 09	4A	2.985575e-03		seob0478	4A	3.501009e-03
fcrc0396	4A	2.985575e-03		seob1426	4A	3.501009e-03
miod2635	4A	2.985575e-03		seob2803	4A	3.501009e-03
ncrc0457	4A	2.985575e-03		seob5012	4A	3.501009e-03
seoa8388	4A	2.985575e-03		fcrb6785	4A	3.51357e-03
seob6558	4A	2.985575e-03		miob9052	4A	3.544872e-03
seob8693	4A	2.985575e-03		seob1023	4A	3.566451e-03
seob9645	4A	2.985575e-03		miod2128	4A	3.574785e-03
seoc3980	4A	2.985575e-03		fcr5176	4A	3.587181e-03
seob9241	4A	2.99238e-03		fcrb4599	4A	3.597168e-03
miod6731	4A	3.045051e-03		fcrc6976	4A	3.597168e-03
fcrc2948	4A	3.06001e-03		ncrb1515	4A	3.597168e-03
miob4322	4A	3.075941e-03		ncrc0090	4A	3.597168e-03
fcrb1578	4A	3.077893e-03		ncrc9727	4A	3.597168e-03
fcrb5416	4A	3.077893e-03		mioc0899	4A	3.59844e-03
miod4348	4A	3.077893e-03		mioc3788	4A	3.62389e-03
mioa2536	4A	3.081507e-03		ncr2717	4A	3.62389e-03
fcrc0430	4A	3.131979e-03		hfcr0370	4A	3.630372e-03
mioa4738	4A	3.14495e-03		hfcr3180	4A	3.630537e-03

271

m.idb4593		T."6Vq"rb2e-U3	mxoal531	4A	4.264609e-03
seoc0276	4A	3.708025e-03	ncr3396	4A	4.264609e-03
fcrb5645	4A	3.72733e-03	ncrb6432	4A	4.264609e-03
fcrc2099	4A	3.72733e-03	ncrc0863	4A	4.264609e-03
mioa6621	4A	3.72733e-03	ncrc3141	4A	4.264609e-03
miob2375	4A	3.72733e-03	seoa0457	4A	4.264609e-03
seob0817	4A	3.72733e-03	seoa8239	4A	4.264609e-03
seob2081	4A	3.72733e-03	seob0031	4A	4.264609e-03
seob3731	4A	3.72733e-03	seob4122	4A	4.264609e-03
seob4191	4A	3.72733e-03	fcrc0654	4A	4.283627e-03
ncrc3045	4A	3.738416e-03	fcrb4391	4A	4.301677e-03
miob6437	4A	3.759775e-03	seoc7281	4A	4.325008e-03
ncrc9217	4A	3.765962e-03	miob7922	4A	4.380163e-03
seoa3852	4A	3.792684e-03	miodl389	4A	4.380163e-03
seocl348	4A	3.792955e-03	ncr9337	4A	4.380163e-03
seoc4288	4A	3.815133e-03	ncrc4296	4A	4.380163e-03
seob4896	4A	3.845442e-03	fcrb3967	4A	4.387834e-03
fcrb3244	4A	3.919128e-03	miob9905	4A	4.397546e-03
fcrb6834	4A	3.919128e-03	mioc6341	4A	4.410268e-03
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fcrl337	4A	3.927065e-03	ncr6943	4A	4.466962e-03
fcrb3073	4A	3.947476e-03	mioa8952	4A	4.498195e-03
miob7638	4A	3.947803e-03	seoa9870	4A	4.498195e-03
seob9649	4A	3.956049e-03	fcrc0180	4A	4.507236e-03
ncr2792	4A	3.970785e-03	seoa4452	4A	4.518564e-03
mioa0246	4A	3.971832e-03	fcrc0166	4A	4.523453e-03
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ncr8893	4A	3.971909e-03	fcrb2317	4A	4.55536e-03
ncrb7329	4A	3.975596e-03	seob8300	4A	4.569266e-03
mioa0328	4A	4.030655e-03	fcrcl745	4A	4.587076e-03
seob0831	4A	4.04796e-03	seob0752	4A	4.588706e-03
fcrc5937	4A	4.057973e-03	mioal626	4A	4.607822e-03
seob6133	4A	4.064124e-03	ncr7661	4A	4.609072e-03
miob3471	4A	4.066271e-03	fcrb3017	4A	4.625568e-03
fcrb5037	4A	4.068542e-03	fcrb3219	4A	4.625568e-03
mioc8434	4A	4.07859e-03	miocl440	4A	4.625568e-03
fcrb6062	4A	4.105596e-03	ncr0438	4A	4.625568e-03
miob3426	4A	4.107551e-03	ncrc4798	4A	4.625568e-03
seoc3883	4A	4.107669e-03	seoa8979	4A	4.625568e-03
seob4117	4A	4.111207e-03	seoc2031	4A	4.625568e-03
miob5675	4A	4.125492e-03	seob0885	4A	4.636325e-03
fcrb3225	4A	4.150986e-03	miodl542	4A	4.642122e-03
fcrb7240	4A	4.155298e-03	fcrc6542	4A	4.660162e-03
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fcrc0379	4A	4.155298e-03	hfcr7855	4A	4.667117e-03
mioa6738	4A	4.155298e-03	seoa3863	4A	4.684362e-03
ncr0531	4A	4.155298e-03	miob9393	4A	4.704854e-03
seoa4783	4A	4.155298e-03	miob5708	4A	4.754388e-03
seoc2253	4A	4.155298e-03	miod2888	4A	4.817047e-03
seoc6703	4A	4.155298e-03	mioa97 92	4A	4.824649e-03
fcrc2613	4A	4.15673e-03	miod7440	4A	4.824649e-03
seob2259	4A	4.15777e-03	ncr8153	4A	4.833622e-03
fcrc6916	4A	4.157873e-03	hfcr4423	4A	4.854665e-03
mioc6274	4A	4.205108e-03	seoa5742	4A	4.870803e-03
seob6879	4A	4.22005e-03	fcr7042	4A	4.873697e-03
miob7109	4A	4.239511e-03	fcr4984	4A	4.887289e-03
fcrb8877	4A	4.261651e-03	fcrb5812	4A	4.900673e-03
ncrb6661	4A	4.262601e-03	mioc4387	4A	4.90272e-03
seoa6621	4A	4.26298e-03	miob9209	4A	4.905985e-03
fcrl833	4A	4.264609e-03	fcrbl731	4A	4.960118e-03
fcr3983	4A	4.264609e-03	miod5698	4A	5.055279e-03
fcrb2596	4A	4.264609e-03	seoc2226	4A	5.062218e-03
hfcr0285	4A	4.264609e-03	ncrb6037	4A	5.071532e-03
hfcrl127	4A	4.264609e-03	miobl4 93	4A	5.083751e-03

miob 858'3	4A	"5":TI893e-03	mioc8479	4A	5.706928e-03
seoc2336	4A	5.122604e-03	miod7461	4A	5.706928e-03
fcrb2591	4A	5.141567e-03	ncr3527	4A	5.706928e-03
fcrc2040	4A	5.141567e-03	ncr5613	4A	5.706928e-03
miod4342	4A	5.141567e-03	seoa3555	4A	5.706928e-03
seob2221	4A	5.141567e-03	seob1766	4A	5.706928e-03
mioc3958	4A	5.159834e-03	fcrc1660	4A	5.732649e-03
seoa4708	4A	5.163067e-03	ncrc5363	4A	5.753889e-03
fcr4214	4A	5.165418e-03	mioa4135	4A	5.753919e-03
fcrb3298	4A	5.165418e-03	fcr6181	4A	5.76259e-03
fcrb3651	4A	5.165418e-03	ncrb1337	4A	5.76259e-03
fcrb3841	4A	5.165418e-03	mioa3799	4A	5.764693e-03
hfcr0225	4A	5.165418e-03	ncrb6192	4A	5.778573e-03
hfcr0829	4A	5.165418e-03	seoa4174	4A	5.780772e-03
hfcr5150	4A	5.165418e-03	seob2797	4A	5.780772e-03
hfcr6256	4A	5.165418e-03	ncrc4633	4A	5.832721e-03
miob1337	4A	5.165418e-03	seoa4107	4A	5.832721e-03
ncr1235	4A	5.165418e-03	fcrb1320	4A	5.844972e-03
ncr7768	4A	5.165418e-03	seoa8486	4A	5.848414e-03
ncrb3284	4A	5.165418e-03	miod5894	4A	5.886058e-03
seoa0219	4A	5.165418e-03	ncrb7350	4A	5.902871e-03
seoa7608	4A	5.165418e-03	seob9730	4A	5.938749e-03
seob6229	4A	5.165418e-03	fcrc5577	4A	5.939408e-03
seob7658	4A	5.165418e-03	mioa3342	4A	5.993081e-03
seoa8397	4A	5.190451e-03	seoa5382	4A	6.021301e-03
seoa2141	4A	5.238547e-03	ncrb8665	4A	6.032318e-03
seob1197	4A	5.238547e-03	seob0466	4A	6.055754e-03
seoa4023	4A	5.272613e-03	fcr0824	4A	6.069793e-03
hfcr4046	4A	5.282479e-03	hfcr0242	4A	6.069793e-03
miob3131	4A	5.293767e-03	ncrc4531	4A	6.069793e-03
seoa6754	4A	5.293767e-03	ncrc6749	4A	6.069793e-03
mioa8912	4A	5.307914e-03	seoc4505	4A	6.069793e-03
miob9065	4A	5.307914e-03	ncr4118	4A	6.075226e-03
mioc2726	4A	5.307914e-03	ncrc3544	4A	6.143974e-03
seob1187	4A	5.307914e-03	miod2525	4A	6.144214e-03
fcrb6715	4A	5.311191e-03	mioc4895	4A	6.180041e-03
fcrb1684	4A	5.32483e-03	hfcr0517	4A	6.202657e-03
mioc0375	4A	5.32483e-03	hfcr2808	4A	6.206246e-03
ncr3751	4A	5.32483e-03	fcr0712	4A	6.222497e-03
ncrc9117	4A	5.326932e-03	fcr2299	4A	6.222497e-03
mioc0741	4A	5.330299e-03	fcr3823	4A	6.222497e-03
seoa7212	4A	5.357933e-03	fcr5112	4A	6.222497e-03
miod1448	4A	5.361348e-03	fcrb2189	4A	6.222497e-03
seoa1065	4A	5.373049e-03	fcrb3704	4A	6.222497e-03
fcrb8092	4A	5.392619e-03	mioa8539	4A	6.222497e-03
seoa1653	4A	5.394287e-03	mioa8811	4A	6.222497e-03
miod2025	4A	5.399416e-03	mioa9666	4A	6.222497e-03
fcr4084	4A	5.432797e-03	ncrb2256	4A	6.222497e-03
seob5203	4A	5.45952e-03	seoa0111	4A	6.222497e-03
miod6038	4A	5.47802e-03	seoa6155	4A	6.222497e-03
miob9176	4A	5.505561e-03	seob1243	4A	6.222497e-03
ncr3778	4A	5.529327e-03	seob4118	4A	6.222497e-03
ncr0615	4A	5.540195e-03	seob5490	4A	6.222497e-03
seoa2819	4A	5.55831e-03	ncrc4757	4A	6.252367e-03
seoa6887	4A	5.55989e-03	mioa1370	4A	6.257446e-03
fcr0593	4A	5.561587e-03	fcrc6513	4A	6.273392e-03
seoa3639	4A	5.567231e-03	fcr0224	4A	6.325491e-03
mioa3944	4A	5.57993e-03	fcr1421	4A	6.325491e-03
miod3592	4A	5.595543e-03	fcrb6102	4A	6.325491e-03
ncrc3856	4A	5.595893e-03	mioa1891	4A	6.325491e-03
seob2336	4A	5.671489e-03	miod1δ11	4A	6.325491e-03
seoa9724	4A	5.679419e-03	miod1942	4A	6.325491e-03
fcr2276	4A	5.706928e-03	miod2323	4A	6.325491e-03
hfcr2295	4A	5.706928e-03	ncrb5197	4A	6.325491e-03

htr'c3 276	4A	β-;3-25'4 9Te-03	ncrc8873	4A	7.378867e-03
seoa4739	4A	6.325491e-03	fcr0018	4A	7.440983e-03
seoc0312	4A	6.325491e-03	seoa3108	4A	7.441703e-03
miobl506	4A	6.366876e-03	ncrc6439	4A	7.443178e-03
fcrb5317	4A	6.373009e-03	fcrl981	4A	7.456649e-03
miod7212	4A	6.387023e-03	fcr6592	4A	7.456649e-03
mioc6360	4A	6.399833e-03	fcrbl962	4A	7.456649e-03
fcrb6141	4A	6.401977e-03	mioa0582	4A	7.456649e-03
mioal701	4A	6.401977e-03	miob6456	4A	7.456649e-03
miob4037	4A	6.401977e-03	ncr8693	4A	7.456649e-03
miod6041	4A	6.401977e-03	ncrb4319	4A	7.456649e-03
seob3356	4A	6.426576e-03	ncrb6818	4A	7.456649e-03
ncrc6888	4A	6.466221e-03	ncrb8820	4A	7.456649e-03
fcrc2536	4A	6.476377e-03	ncrc2018	4A	7.456649e-03
fcrl844	4A	6.492241e-03	ncrc3468	4A	7.456649e-03
fcr6573	4A	6.501956e-03	seoa2363	4A	7.456649e-03
ncrb6073	4A	6.504705e-03	seoa8177	4A	7.456649e-03
fcrbl721	4A	6.507726e-03	seob0263	4A	7.456649e-03
miocl060	4A	6.545993e-03	seob4075	4A	7.456649e-03
fcr5339	4A	6.551892e-03	seob4835	4A	7.456649e-03
ncr3123	4A	6.581747e-03	ncrc3358	4A	7.463658e-03
hfcr0731	4A	6.583534e-03	ncrb4339	4A	7.48001e-03
ncr3684	4A	6.635942e-03	miob2227	4A	7.500266e-03
fcr2530	4A	6.689902e-03	miod7270	4A	7.513006e-03
miodl331	4A	6.733995e-03	seoa6412	4A	7.513354e-03
seoa5302	4A	6.799372e-03	ncr9108	4A	7.517374e-03
seoa2962	4A	6.824728e-03	fcr5354	4A	7.519432e-03
ncrb0696	4A	6.838407e-03	miob4803	4A	7.548582e-03
ncrcl765	4A	6.853461e-03	ncr5713	4A	7.549524e-03
miod7 418	4A	6.879028e-03	ncr6335	4A	7.551784e-03
mioa8 646	4A	6.88399e-03	fcrb4415	4A	7.552397e-03
hfcr0521	4A	6.893985e-03	mioa2013	4A	7.553193e-03
ncr3118	4A	6.909891e-03	seobl093	4A	7.559492e-03
seob7404	4A	6.975311e-03	mioa2851	4A	7.597834e-03
seoal584	4A	6.981622e-03	ncr9549	4A	7.605434e-03
fcrb2809	4A	6.989881e-03	ncrl912	4A	7.616232e-03
miob3531	4A	6.997741e-03	ncr6408	4A	7.649128e-03
hfcr0383	4A	6.997808e-03	miob3308	4A	7.656241e-03
fcrl068	4A	7.001313e-03	mioa9429	4A	7.677999e-03
fcrc3704	4A	7.001313e-03	fcrb8927	4A	7.686197e-03
mioal775	4A	7.001313e-03	fcrb9649	4A	7.686197e-03
miob8214	4A	7.001313e-03	fcrc2231	4A	7.686197e-03
seob5773	4A	7.001313e-03	mioa3842	4A	7.686197e-03
seocl235	4A	7.001313e-03	ncrc6127	4A	7.686197e-03
mioa9649	4A	7.004996e-03	fcrc0651	4A	7.716354e-03
mioa3395	4A	7.018735e-03	fcrb9569	4A	7.73867e-03
mioc7421	4A	7.018735e-03	fcrc4734	4A	7.73867e-03
ncrb4538	4A	7.018735e-03	mioc2471	4A	7.73867e-03
seob4726	4A	7.018735e-03	ncrcl751	4A	7.73867e-03
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fcrl633	4A	7.036908e-03	seoa4324	4A	7.73867e-03
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ncrc5088	4A	7.096473e-03	seob8602	4A	7.73867e-03
ncrc2133	4A	7.104324e-03	mioa3379	4A	7.75818e-03
seob4752	4A	7.112274e-03	ncr6141	4A	7.805448e-03
seob0253	4A	7.113413e-03	seob0763	4A	7.806702e-03
hfcr8908	4A	7.12111e-03	miob8947	4A	7.816384e-03
miob8515	4A	7.12261e-03	fcrb5039	4A	7.832165e-03
mioc0824	4A	7.15595e-03	ncr9975	4A	7.832165e-03
seoc2030	4A	7.182844e-03	ncrb5535	4A	7.832165e-03
fcrb3483	4A	7.24584e-03	mioal532	4A	7.894273e-03
seob5044	4A	7.256079e-03	seobl052	4A	7.907861e-03
ncr0518	4A	7.375395e-03	seob0038	4A	7.942732e-03
hfcr6486	4A	7.375397e-03	mioc0090	4A	7.966285e-03

·inló'al4 9-4··· fk'		⊤ 8. OUXlTTe-03	ncrb8817	4A	8.890462e-03
fcrb4275	4A	8.016752e-03	ncrc1999	4A	8.890462e-03
seoa9729	4A	8.054693e-03	ncrc4903	4A	8.890462e-03
seoc3463	4A	8.071299e-03	ncrc5179	4A	8.890462e-03
hfcr 6110	4A	8.079562e-03	seoa0256	4A	8.890462e-03
seoc0596	4A	8.12048e-03	seoa0549	4A	8.890462e-03
seoa7442	4A	8.198259e-03	seoa3144	4A	8.890462e-03
fcr0604	4A	8.225459e-03	seoa8912	4A	8.890462e-03
hfcr2789	4A	8.270865e-03	seoa9644	4A	8.902262e-03
fcrb2784	4A	8.281158e-03	seob2131	4A	8.945684e-03
ncrc3453	4A	8.291186e-03	miocl638	4A	8.998678e-03
ncrb6949	4A	8.33639e-03	ncr3811	4A	9.023625e-03
ncrc5813	4A	8.336956e-03	seob2185	4A	9.023625e-03
seoa7286	4A	8.352358e-03	seoa8902	4A	9.03728e-03
mioc6211	4A	8.361946e-03	ncr0251	4A	9.045048e-03
fcrb5204	4A	8.383698e-03	mioa4484	4A	9.084475e-03
mioc3906	4A	8.39011e-03	fcrb9253	4A	9.091981e-03
mioa2156	4A	8.3927e-03	fcrb9659	4A	9.121639e-03
miob6372	4A	8.3927e-03	miod6032	4A	9.121639e-03
ncrb8285	4A	8.404129e-03	seob3151	4A	9.164302e-03
fcrb4016	4A	8.407716e-03	fcr2939	4A	9.185386e-03
hfcr3494	4A	8.407716e-03	mioa5097	4A	9.186801e-03
seoal559	4A	8.407716e-03	mioa5461	4A	9.186801e-03
seoa5429	4A	8.407716e-03	ncr3306	4A	9.186801e-03
fcrc7180	4A	8.416489e-03	fcrc5846	4A	9.224686e-03
mioc4290	4A	8.442771e-03	seoa6695	4A	9.246123e-03
fcrb5928	4A	8.465835e-03	mioa5836	4A	9.297065e-03
ncr8827	4A	8.500115e-03	seoa3359	4A	9.339094e-03
mioa8471	4A	8.501059e-03	mioal953	4A	9.364811e-03
miob2668	4A	8.520984e-03	seoa0470	4A	9.381493e-03
miob5646	4A	8.522582e-03	fcr0999	4A	9.416219e-03
fcrb6725	4A	8.542063e-03	mioa2185	4A	9.416219e-03
mioc7370	4A	8.542063e-03	mioa8557	4A	9.416219e-03
miod0340	4A	8.542063e-03	mioc8474	4A	9.416219e-03
seoa9060	4A	8.542063e-03	miod4857	4A	9.416219e-03
seob5862	4A	8.59472e-03	ncr4656	4A	9.416219e-03
seoa0396	4A	8.622683e-03	seob3007	4A	9.416219e-03
seob2685	4A	8.638593e-03	seob9480	4A	9.416219e-03
seob5886	4A	8.655309e-03	seob8255	4A	9.416834e-03
fcrc7240	4A	8.681552e-03	seob5004	4A	9.45308e-03
ncr3035	4A	8.686913e-03	miob9201	4A	9.466193e-03
mioal976	4A	8.695473e-03	mioa4721	4A	9.472533e-03
ncrc4000	4A	8.697789e-03	seob0703	4A	9.515566e-03
ncrb8203	4A	8.703157e-03	seob6413	4A	9.517365e-03
seoa8556	4A	8.703157e-03	fcrb6460	4A	9.520838e-03
fcrbl529	4A	8.709936e-03	ncrc2472	4A	9.520838e-03
seoa4422	4A	8.746669e-03	fcrb 8110	4A	9.527098e-03
mioa6582	4A	8.752864e-03	mioc2369	4A	9.59029e-03
ncr4551	4A	8.805744e-03	seoa5977	4A	9.591902e-03
ncrb8821	4A	8.827587e-03	fcr0787	4A	9.596065e-03
fcrb2331	4A	8.866666e-03	mioc4782	4A	9.602574e-03
fcrb5439	4A	8.866666e-03	ncrc3598	4A	9.64688e-03
ncrb8189	4A	8.866666e-03	ncr0213	4A	9.687262e-03
seob8386	4A	8.866666e-03	fcrbl337	4A	9.722232e-03
seoc4380	4A	8.866666e-03	seob8311	4A	9.81703e-03
fcr3538	4A	8.890462e-03	mioa8858	4A	9.827977e-03
fcrbl547	4A	8.890462e-03	seoa0469	4A	9.846641e-03
fcrb2223	4A	8.890462e-03	miob9185	4A	9.849754e-03
hfcr2803	4A	8.890462e-03	mioc2173	4A	9.86782e-03
hfcr3500	4A	8.890462e-03	seoa7266	4A	9.86782e-03
mioa2268	4A	8.890462e-03	seob5500	4A	9.89313e-03
mioa7015	4A	8.890462e-03	x0iod7421	4A	9.917289e-03
mioa9060	4A	8.890462e-03	ncr506 β	4A	9.921102e-03
ncrl526	4A	8.890462e-03	miobl139	4A	9.933523e-03

ffcrc888	4A	~SC9'5,7S57e-03	seob7946	4A	0.01
seoc2027	4A	9.989765e-03	fcrb2713	4A	0.01
fcr4832	4A	0.01	miob8052	4A	0.01
ncrc9055	4A	0.01	miob8012	4A	0.01
seoa6358	4A	0.01	fcr7403	4A	0.01
seoc1948	4A	0.01	ncr3436	4A	0.01
seoa0949	4A	0.01	fcrb4739	4A	0.01
miob8373	4A	0.01	miod3591	4A	0.01
miod4938	4A	0.01	ncrc2685	4A	0.01
seob3520	4A	0.01	ncrb2558	4A	0.01
miod7337	4A	0.01	mioc3127	4A	0.01
ncr2892	4A	0.01	miod0443	4A	0.01
fcrb4378	4A	0.01	fcr4722	4A	0.01
seoc3993	4A	0.01	seoc6696	4A	0.01
seob3076	4A	0.01	ncrl876	4A	0.01
ncrb8102	4A	0.01	ncrc2670	4A	0.01
fcrb3519	4A	0.01	seoc2246	4A	0.01
fcr3957	4A	0.01	hfcr5220	4A	0.01
mioa9788	4A	0.01	miod0625	4A	0.01
seob3464	4A	0.01	fcrb7321	4A	0.01
seoa0135	4A	0.01	miob4064	4A	0.01
ncr2304	4A	0.01	miob9284	4A	0.01
hfcr4462	4A	0.01	seoa0464	4A	0.01
fcrb3306	4A	0.01	seobl009	4A	0.01
fcr2196	4A	0.01	mioc0734	4A	0.01
fcr2573	4A	0.01	seob0409	4A	0.01
fcrb7 699	4A	0.01	seoa2041	4A	0.01
fcrc3229	4A	0.01	fcrb7392	4A	0.01
mioa1882	4A	0.01	ncrc0539	4A	0.01
mioa5951	4A	0.01	mioc8682	4A	0.01
ncrb0303	4A	0.01	mioc4247	4A	0.01
seoa9930	4A	0.01	hfcrlll 5	4A	0.01
fcrb5720	4A	0.01	ncr7852	4A	0.01
ncr6920	4A	0.01	hfcr4485	4A	0.01
hfcr0489	4A	0.01	fcr5407	4A	0.01
fcrcl181	4A	0.01	mioal944	4A	0.01
seob0339	4A	0.01	mioa2395	4A	0.01
seoa4670	4A	0.01	mioa6418	4A	0.01
miob3396	4A	0.01	miob4 668	4A	0.01
miod4083	4A	0.01	ncrc9368	4A	0.01
miocl205	4A	0.01	seoa8870	4A	0.01
seoc2205	4A	0.01	miob0202	4A	0.01
fcr0768	4A	0.01	ncr2966	4A	0.01
fcrl173	4A	0.01	fcrbl729	4A	0.01
fcr5288	4A	0.01	fcr0187	4A	0.01
fcr5755	4A	0.01	fcrbl687	4A	0.01
fcrb0007	4A	0.01	mioal687	4A	0.01
fcrb4252	4A	0.01	mioa2522	4A	0.01
fcrb5296	4A	0.01	mioc3618	4A	0.01
hfcr6164	4A	0.01	miod4407	4A	0.01
hfcr6336	4A	0.01	ncrbl420	4A	0.01
miobl0l δ	4A	0.01	seob7200	4A	0.01
ncr0527	4A	0.01	fcrb4367	4A	0.01
ncrb3003	4A	0.01	fcrb6896	4A	0.01
ncrb6327	4A	0.01	ncrc0393	4A	0.01
ncrb8689	4A	0.01	fcrb4238	4A	0.01
ncrc5207	4A	0.01	hfcr3441	4A	0.01
seoa4167	4A	0.01	seoa9889	4A	0.01
seoa8597	4A	0.01	seoc2144	4A	0.01
seob0298	4A	0.01	seob4197	4A	0.01
seob0745	4A	0.01	fcrb2325	4A	0.01
seob3451	4A	0.01	seoa4595	4A	0.01
seob4992	4A	0.01	mioa5131	4A	0.01
seob5645	4A	0.01	ncr3172	4A	0.01

276

Se&B37'4'... 4A o .01			miob7135	4A	0.01
fcr3620	4A	0.01	seob8388	4A	0.01
fcr4965	4A	0.01	ncr6401	4A	0.01
fcrc3942	4A	0.01	ncr7097	4A	0.01
mioc7471	4A	0.01	fcr6493	4A	0.01
ncr5055	4A	0.01	mioc6426	4A	0.01
ncr5488	4A	0.01	seoa5473	4A	0.01
fcrc5797	4A	0.01	seob8355	4A	0.01
ncrb1438	4A	0.01	ncrb0864	4A	0.01
ncrb8343	4A	0.01	hfcr6677	4A	0.01
fcrb6728	4A	0.01	mioc7818	4A	0.01
seoc3250	4A	0.01	mioa0891	4A	0.01
seoa4727	4A	0.01	ncrb8437	4A	0.01
miod3366	4A	0.01	mioa2413	4A	0.01
seoa2381	4A	0.01	seob1632	4A	0.01
seob7729	4A	0.01	seoa6867	4A	0.01
seoa3895	4A	0.01	fcr0842	4A	0.01
mioal388	4A	0.01	seoc3277	4A	0.01
seob3734	4A	0.01	ncrc1941	4A	0.01
seob7082	4A	0.01	ncrc2949	4A	0.01
fcrb2 635	4A	0.01	seob3141	4A	0.01
mioc4366	4A	0.01	miod7375	4A	0.01
ncrc1029	4A	0.01	fcrb2208	4A	0.01
fcrc2326	4A	0.01	ncr1055	4A	0.01
hfcr3592	4A	0.01	fcrc6582	4A	0.01
miob2067	4A	0.01	fcr2102	4A	0.01
fcrb1428	4A	0.01	fcrb4 929	4A	0.01
mioc3930	4A	0.01	mioc4009	4A	0.01
fcrb3237	4A	0.01	miod6044	4A	0.01
seoc2173	4A	0.01	ncrc1593	4A	0.01
fcrb1017	4A	0.01	seob4539	4A	0.01
hfcr1202	4A	0.01	seob6156	4A	0.01
hfcr2966	4A	0.01	seob4766	4A	0.01
hfcr3022	4A	0.01	seoa9287	4A	0.01
hfcr9290	4A	0.01	seob5465	4A	0.01
mioa0308	4A	0.01	miob5810	4A	0.01
mioa3786	4A	0.01	mioa5202	4A	0.01
mioa5294	4A	0.01	fcrb1539	4A	0.01
mioa5326	4A	0.01	hfcr3453	4A	0.01
ncr8542	4A	0.01	fcr6150	4A	0.01
ncrc0856	4A	0.01	miob0939	4A	0.01
ncrc4226	4A	0.01	fcrb8855	4A	0.01
ncrc4794	4A	0.01	miob5916	4A	0.01
seoal582	4A	0.01	mioa4064	4A	0.01
seoal883	4A	0.01	fcr6902	4A	0.01
seoa4630	4A	0.01	hfcr0675	4A	0.01
seoa5894	4A	0.01	mioc2905	4A	0.01
seoa7626	4A	0.01	fcrb4725	4A	0.01
seob1646	4A	0.01	mioa2478	4A	0.01
hfcr0776	4A	0.01	ncrc1665	4A	0.01
fcr4582	4A	0.01	seoc1664	4A	0.01
fcrb7685	4A	0.01	seoa5785	4A	0.01
hfcr2516	4A	0.01	miod2330	4A	0.01
mioa6999	4A	0.01	fcrb7388	4A	0.01
miob5752	4A	0.01	seoa3251	4A	0.01
miod0686	4A	0.01	fcrb5675	4A	0.01
miod3600	4A	0.01	fcrb7880	4A	0.01
ncrc0249	4A	0.01	fcrc1607	4A	0.01
seoa9855	4A	0.01	mioa9258	4A	0.01
seob5064	4A	0.01	miob9163	4A	0.01
seob9756	4A	0.01	seoa3752	4A	0.01
seob9818	4A	0.01	seob0344	4A	0.01
miob8425	4A	0.01	miob0931	4A	0.01
seob2816	4A	0.01	seob0228	4A	0.01

miodir98	4A	Uvüⁱ	miod6658	4A	0.01
seoa2391	4A	0.01	fcr0776	4A	0.01
mioa6476	4A	0.01	fcr4012	4A	0.01
miob2593	4A	0.01	fcr6969	4A	0.01
seoa3274	4A	0.01	fcrb4988	4A	0.01
mioc0999	4A	0.01	fcrc3025	4A	0.01
seob0641	4A	0.01	ncr4384	4A	0.01
fcrb5087	4A	0.01	seoa0823	4A	0.01
fcrb5536	4A	0.01	seob2149	4A	0.01
ncrb4022	4A	0.01	seob5558	4A	0.01
seobl574	4A	0.01	seob6177	4A	0.01
ncr3402	4A	0.01	seoc2220	4A	0.01
fcrc7056	4A	0.01	mioc2152	4A	0.01
mioa7299	4A	0.01	fcrb7453	4A	0.01
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miob4238	4A	0.01	mioa6772	4A	0.01
mioc8694	4A	0.01	miob4876	4A	0.01
seoa6106	4A	0.01	ncrb0653	4A	0.01
seob8807	4A	0.01	seob9353	4A	0.01
fcrb7751	4A	0.01	seoal992	4A	0.01
seobl399	4A	0.01	miod6024	4A	0.01
seoa0388	4A	0.01	fcrc2969	4A	0.01
mioal353	4A	0.01	ncr0740	4A	0.01
fcrb7084	4A	0.01	ncrbl085	4A	0.01
ncr7839	4A	0.01	ncrb6581	4A	0.01
ncr5939	4A	0.01	ncrc6941	4A	0.01
mioa6840	4A	0.01	seoa0145	4A	0.01
ncrc5758	4A	0.01	seob0716	4A	0.01
fcr0557	4A	0.01	fcrc7010	4A	0.01
seob3455	4A	0.01	mioa6268	4A	0.01
seob7444	4A	0.01	ncr0429	4A	0.01
miob6797	4A	0.01	fcrc6382	4A	0.01
ncrb3936	4A	0.01	mioal947	4A	0.01
cr0289	4A	0.01	fcrb2380	4A	0.01
fcr0469	4A	0.01	mioc0911	4A	0.01
fcr3005	4A	0.01	fcrc6413	4A	0.01
fcr3323	4A	0.01	mioa6428	4A	0.01
fcr4057	4A	0.01	fcrb9499	4A	0.01
fcr6314	4A	0.01	hfcr5023	4A	0.01
fcrbl657	4A	0.01	mioa8987	4A	0.01
fcrbl720	4A	0.01	miob9700	4A	0.01
fcrb2308	4A	0.01	ncrc3908	4A	0.01
fcrb4375	4A	0.01	seoa6638	4A	0.01
hfcr6509	4A	0.01	mioa4944	4A	0.01
hfcr7968	4A	0.01	ncr0679	4A	0.01
mioal657	4A	0.01	fcr0990	4A	0.01
mioa3888	4A	0.01	fcrb6087	4A	0.01
mioa4321	4A	0.01	miocl354	4A	0.01
miob5713	4A	0.01	miod5159	4A	0.01
ncr7345	4A	0.01	ncr9956	4A	0.01
ncrb3942	4A	0.01	ncrc2686	4A	0.01
ncrcl141	4A	0.01	ncrc 6000	4A	0.01
ncrc2928	4A	0.01	seob9124	4A	0.01
seoalll δ	4A	0.01	fcrb2485	4A	0.01
seoa3287	4A	0.01	hfcr4444	4A	0.01
seobl746	4A	0.01	seoal789	4A	0.01
seob2139	4A	0.01	fcrb5702	4A	0.01
seob4145	4A	0.01	ncrb3541	4A	0.01
seob4213	4A	0.01	fcrcl689	4A	0.01
seob2959	4A	0.01	miob7092	4A	0.01
ncrc2763	4A	0.01	hfcr6680	4A	0.01
fcr0860	4A	0.01	hfcr2984	4A	0.01
seobl617	4A	0.01	mioc0669	4A	0.01
mioa4704	4A	0.01	fcrb2979	4A	0.01

talob-344"3-	4A	0.01		hfcr0511	4A	0.01
hfcr6931	4A	0.01		hfcr2536	4A	0.01
hfcr0476	4A	0.01		hfcr6501	4A	0.01
ncr3614	4A	0.01		mioa0533	4A	0.01
fcr0548	4A	0.01		mioa9316	4A	0.01
fcrc6002	4A	0.01		miob3307	4A	0.01
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seob4804	4A	0.01		ncr0456	4A	0.01
ncr9596	4A	0.01		ncrc0558	4A	0.01
miob2881	4A	0.01		ncrc2940	4A	0.01
miob9495	4A	0.01		ncrc3416	4A	0.01
ncrb6557	4A	0.01		ncrc5806	4A	0.01
ncrc4586	4A	0.01		seoa0563	4A	0.01
fcrl883	4A	0.01		seoa0926	4A	0.01
fcrb2516	4A	0.01		seoa3489	4A	0.01
fcrb4542	4A	0.01		seob2807	4A	0.01
fcrc0367	4A	0.01		seoa9711	4A	0.01
fcrc6174	4A	0.01		ncrbl456	4A	0.01
mioc0052	4A	0.01		ncr3483	4A	0.01
ncr4408	4A	0.01		seoc0220	4A	0.01
ncrc4188	4A	0.01		ncrb2544	4A	0.01
seoa3633	4A	0.01		seob5927	4A	0.01
seoa5157	4A	0.01		seoa0393	4A	0.01
seob4498	4A	0.01		seoa3422	4A	0.01
seob6030	4A	0.01		seob0879	4A	0.01
seoc3487	4A	0.01		miod3854	4A	0.01
seoal089	4A	0.01		fcr0833	4A	0.01
fcrc5351	4A	0.01		seob3699	4A	0.01
fcr0792	4A	0.01		fcrc0700	4A	0.01
fcr5316	4A	0.01		miod7 408	4A	0.01
fcrb4109	4A	0.01		seoc0657	4A	0.01
fcrb6181	4A	0.01		seoc8065	4A	0.01
fcrb8915	4A	0.01		fcrb8664	4A	0.01
miob8698	4A	0.01		ncrbl670	4A	0.01
miob9529	4A	0.01		fcr2842	4A	0.01
ncrc0028	4A	0.01		fcrbl763	4A	0.01
ncrc9412	4A	0.01		mioa2213	4A	0.01
seob0046	4A	0.01		ncrc5653	4A	0.01
seoa0512	4A	0.01		ncrc3434	4A	0.01
ncrc7151	4A	0.01		fcrc0350	4A	0.01
fcrbl834	4A	0.01		mioa2993	4A	0.01
ncr7945	4A	0.01		fcrb9355	4A	0.01
ncrb8239	4A	0.01		fcrc5328	4A	0.01
ncrc4015	4A	0.01		miob5119	4A	0.01
fcrb2926	4A	0.01		mioc5661	4A	0.01
hfcr4028	4A	0.01		seoa5547	4A	0.01
seob0999	4A	0.01		seoa5584	4A	0.01
miob4368	4A	0.01		seoc7018	4A	0.01
seoa9619	4A	0.01		mioc3332	4A	0.01
hfcr5383	4A	0.01		miob3330	4A	0.01
seoa4524	4A	0.01		fcr2986	4A	0.01
miob8816	4A	0.01		fcrc6970	4A	0.01
seob0787	4A	0.01		miob04 96	4A	0.01
ncr0664	4A	0.01		mioc0121	4A	0.01
miod22 64	4A	0.01		miocl524	4A	0.01
miob6373	4A	0.01		fcrc4157	4A	0.01
fcr7208	4A	0.01		mioa8051	4A	0.01
seoa4587	4A	0.01		miob5855	4A	0.01
seoa8684	4A	0.01		mioc3648	4A	0.01
seob9485	4A	0.01		ncr7239	4A	0.01
fcr4802	4A	0.01		seoa9740	4A	0.01
fcr4954	4A	0.01		ncr3339	4A	0.01
fcr7026	4A	0.01		fcrc0597	4A	0.01
fcrb2637	4A	0.01		ncrcl 8β1	4A	0.01

seoa9205	4A	0.01		seoa3514	4A	0.01
miod3306	4A	0.01		seob3204	4A	0.01
ncrc6047	4A	0.01		seob6506	4A	0.01
ncr3830	4A	0.01		seob9574	4A	0.01
ncrc1502	4A	0.01		seoc0742	4A	0.01
ncr3496	4A	0.01		fcr2018	4A	0.01
seoa1834	4A	0.01		miocl768	4A	0.01
mioc2019	4A	0.01		ncr0004	4A	0.01
ncrc6479	4A	0.01		fcr1853	4A	0.01
seoa0501	4A	0.01		mioc8481	4A	0.01
fcr00β1	4A	0.01		ncr7712	4A	0.01
ncr4332	4A	0.01		miod7351	4A	0.01
ncrl007	4A	0.01		fcrb8536	4A	0.01
ncr3843	4A	0.01		seob7622	4A	0.01
mioa1310	4A	0.01		fcrβ1β1	4A	0.01
seob0221	4A	0.01		seob4087	4A	0.01
fcrb9694	4A	0.01		miob3552	4A	0.01
mioc8016	4A	0.01		seoa4202	4A	0.01
seob5209	4A	0.01		fcrb9829	4A	0.01
seobl526	4A	0.01		fcrc7228	4A	0.01
ncrc0576	4A	0.01		mioal906	4A	0.01
fcrb7367	4A	0.01		miod5372	4A	0.01
seoa8867	4A	0.01		ncrc5635	4A	0.01
seob3415	4A	0.01		seobl155	4A	0.01
mioa0482	4A	0.01		seob3564	4A	0.01
mioa6690	4A	0.01		fcrb7215	4A	0.01
ncr3037	4A	0.01		seoa8195	4A	0.01
fcrb5964	4A	0.01		fcr0779	4A	0.01
seob4172	4A	0.01		fcr2494	4A	0.01
miob9020	4A	0.01		fcr5584	4A	0.01
fcrb9118	4A	0.01		fcrb2715	4A	0.01
fcr7201	4A	0.01		fcrb5448	4A	0.01
hfcr3391	4A	0.01		fcrb5534	4A	0.01
fcrb2353	4A	0.01		hfcr6027	4A	0.01
miod2977	4A	0.01		mioa9062	4A	0.01
miob0361	4A	0.01		ncr0019	4A	0.01
fcrb5870	4A	0.01		ncr9324	4A	0.01
fcrb5438	4A	0.01		ncrb8237	4A	0.01
seob0241	4A	0.01		ncrcl501	4A	0.01
seob8742	4A	0.01		seoal497	4A	0.01
fcrb2200	4A	0.01		seoa2042	4A	0.01
fcrcl758	4A	0.01		seoa2692	4A	0.01
mioa0247	4A	0.01		seoa2777	4A	0.01
seob2724	4A	0.01		seoa4543	4A	0.01
mioa8747	4A	0.01		seoa5777	4A	0.01
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seobl947	4A	0.01		seob2642	4A	0.01
fcr0707	4A	0.01		seob2657	4A	0.01
mioa7239	4A	0.01		seob3551	4A	0.01
mioc6055	4A	0.01		seob5684	4A	0.01
seoa9712	4A	0.01		seob7744	4A	0.01
seocl906	4A	0.01		fcrbl190	4A	0.02
seob2750	4A	0.01		seob9152	4A	0.02
ncrc6367	4A	0.01		mioc3139	4A	0.02
miod2665	4A	0.01		mioc9732	4A	0.02
miocl865	4A	0.01		mioc8437	4A	0.02
seoal358	4A	0.01		ncrb6640	4A	0.02
seoa9997	4A	0.01		mioc7863	4A	0.02
seobl103	4A	0.01		fcrb4727	4A	0.02
fcrc4876	4A	0.01		ncr6344	4A	0.02
hfcrl314	4A	0.01		fcr0893	4A	0.02
mioc4112	4A	0.01		miob8025	4A	0.02

seob6417	4A	oro2		fcr3575	4A	0.02
hfcr2850	4A	0.02		mioc7433	4A	0.02
mioc6970	4A	0.02		miob8565	4A	0.02
fcrb4249	4A	0.02		seob9285	4A	0.02
miod3254	4A	0.02		seob6560	4A	0.02
ncrc3256	4A	0.02		seoa3908	4A	0.02
seoa9165	4A	0.02		mioal704	4A	0.02
seob5214	4A	0.02		seoc5140	4A	0.02
seocl402	4A	0.02		seob6153	4A	0.02
miob9817	4A	0.02		miod2853	4A	0.02
seobl748	4A	0.02		mioa7602	4A	0.02
miob3725	4A	0.02		fcr2417	4A	0.02
ncr4215	4A	0.02		fcrb8829	4A	0.02
fcrb3726	4A	0.02		ncr4416	4A	0.02
mioc4925	4A	0.02		fcrb3554	4A	0.02
fcrb6269	4A	0.02		ncr5719	4A	0.02
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seob5889	4A	0.02		ncrc5608	4A	0.02
hfcr6727	4A	0.02		seoa7115	4A	0.02
mioa0959	4A	0.02		seob0386	4A	0.02
fcr6619	4A	0.02		seob7886	4A	0.02
fcr4468	4A	0.02		ncrc4772	4A	0.02
ncrc6984	4A	0.02		ncrb8398	4A	0.02
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mioc2694	4A	0.02		seoa6654	4A	0.02
ncrb3301	4A	0.02		mioa8899	4A	0.02
ncrb3348	4A	0.02		miob0589	4A	0.02
ncrc0583	4A	0.02		miocl245	4A	0.02
fcrb3618	4A	0.02		mioc3962	4A	0.02
mioa5452	4A	0.02		ncr4590	4A	0.02
fcrc6356	4A	0.02		ncr4122	4A	0.02
fcrc2455	4A	0.02		seoa3143	4A	0.02
fcr5618	4A	0.02		hfcrll89	4A	0.02
miob6595	4A	0.02		seoa6172	4A	0.02
mioc5692	4A	0.02		fcrb5850	4A	0.02
ncr0223	4A	0.02		ncrc0439	4A	0.02
ncr4208	4A	0.02		fcrb8509	4A	0.02
ncr8337	4A	0.02		seob0937	4A	0.02
ncrc4135	4A	0.02		fcrb8243	4A	0.02
seoal979	4A	0.02		mioc3420	4A	0.02
seob3545	4A	0.02		miod7457	4A	0.02
seoc0866	4A	0.02		seobl744	4A	0.02
seob4570	4A	0.02		seob4965	4A	0.02
seoc5835	4A	0.02		seob7474	4A	0.02
fcrb2843	4A	0.02		ncrc5631	4A	0.02
miob4077	4A	0.02		seob8639	4A	0.02
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ncrb8714	4A	0.02		fcr3277	4A	0.02
mioc5740	4A	0.02		miod3456	4A	0.02
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seob6415	4A	0.02		ncr0165	4A	0.02
mioa3439	4A	0.02		fcrbβ000	4A	0.02
miob5467	4A	0.02		fcr2528	4A	0.02
seoa2300	4A	0.02		fcr6412	4A	0.02
mioa6807	4A	0.02		fcr6928	4A	0.02
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seoa5637	4A	0.02		mioal079	4A	0.02
seob2011	4A	0.02		mioa3203	4A	0.02

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miob2355	4A	0.02
ncr0159	4A	0.02
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fcrb3080	4A	0.02
fcrb7093	4A	0.02
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ncrl967	4A	0.02
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seoal552	4A	0.02
mioc6949	4A	0.02
seob5767	4A	0.02
fcrb8222	4A	0.02
miod4449	4A	0.02
ncrb864 9	4A	0.02
ncrc5417	4A	0.02
fcrl098	4A	0.02
mioc4636	4A	0.02
mioc6983	4A	0.02
fcrc6010	4A	0.02
fcr5141	4A	0.02
fcrb2196	4A	0.02
fcrc4948	4A	0.02
mioal337	4A	0.02
mioa3629	4A	0.02
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miod0845	4A	0.02

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mioc5307	4A	0.02	fcrc2678	4A	0.02
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seob7903	4A	0.02	seoa0174	4A	0.02
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fcr0703	4A	0.02	seoc4909	4A	0.02
fcrb2559	4A	0.02	ncrc1111	4A	0.02
ncrc5296	4A	0.02	fcrb3181	4A	0.02
mioc1910	4A	0.02	mioa4476	4A	0.02
miob9848	4A	0.02	ncrb5254	4A	0.02
seob6584	4A	0.02	fcrb6818	4A	0.02
fcrb3702	4A	0.02	ncrc9947	4A	0.02
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fcrb1059	4A	0.02	seoa7587	4A	0.02
fcrb1312	4A	0.02	fcrb8014	4A	0.02
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hfcr5243	4A	0.02	ncrb693 β	4A	0.02
mioa4057	4A	0.02	ncrc5312	4A	0.02
miob2645	4A	0.02	fcr0796	4A	0.02
ncr3465	4A	0.02	ncr1631	4A	0.02
ncrb4351	4A	0.02	ncr2472	4A	0.02
ncrb8460	4A	0.02	fcrb6463	4A	0.02
ncrb8538	4A	0.02	seoa1776	4A	0.02
ncrc5019	4A	0.02	fcr5181	4A	0.02
seoa1513	4A	0.02	miob4975	4A	0.02
seoa3229	4A	0.02	mioc4504	4A	0.02
seoa3400	4A	0.02	ncrb6846	4A	0.02
seoa8227	4A	0.02	seoa2765	4A	0.02
seoa8564	4A	0.02	seob0678	4A	0.02
seob0182	4A	0.02	seob5144	4A	0.02
seob5711	4A	0.02	fcrb6442	4A	0.02
seob6683	4A	0.02	mioa4229	4A	0.02
ncrb8559	4A	0.02	fcrb4226	4A	0.02
miob1059	4A	0.02	fcr5204	4A	0.02
seob6096	4A	0.02	fcrc2014	4A	0.02
miod7243	4A	0.02	mioa2158	4A	0.02
mioc8206	4A	0.02	hfcr9461	4A	0.02
ncr2862	4A	0.02	fcr2684	4A	0.02
ncrb2395	4A	0.02	hfcr0582	4A	0.02
fcrb4802	4A	0.02	seoc2741	4A	0.02
mioa3673	4A	0.02	hfcr7576	4A	0.02
seoa4601	4A	0.02	miob2709	4A	0.02
mioa4077	4A	0.02	ncrc1608	4A	0.02
ncr6343	4A	0.02	fcrb6028	4A	0.02
mioc1928	4A	0.02	mioa5586	4A	0.02
ncrc3953	4A	0.02	mioc3045	4A	0.02
mioa7556	4A	0.02	seoa0536	4A	0.02
ncrc6592	4A	0.02	fcrc6234	4A	0.02
seoa1540	4A	0.02	mioa8074	4A	0.02
seoa5586	4A	0.02	ncr0210	4A	0.02
mioc0164	4A	0.02	miob9734	4A	0.02
mioa8679	4A	0.02	seob8972	4A	0.02
mioa9007	4A	0.02	ncrc0115	4A	0.02
miob3044	4A	0.02	ncr3827	4A	0.02

ncrc7β	Θ	4A	0.02	ncrc0843	4A	0.03
seoa6033	4A	0.02		ncrc9944	4A	0.03
seoa0794	4A	0.02		seoa0783	4A	0.03
seoa4056	4A	0.02		seoa2899	4A	0.03
iniob3496	4A	0.02		seoa3335	4A	0.03
seob2950	4A	0.02		seoa3910	4A	0.03
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ncrc7049	4A	0.02		seob0394	4A	0.03
fcr0111	4A	0.02		seob1007	4A	0.03
fcrc3676	4A	0.02		fcr2743	4A	0.03
fcrc7047	4A	0.02		mioc3746	4A	0.03
mioc4319	4A	0.02		fcr6266	4A	0.03
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fcr4494	4A	O.04	fcrb4515	4A	0.04
fcrc2089	4A	O.04	seob4263	4A	0.04
ncrc5592	4A	O.04	fcrc2126	4A	0.04
ncr3961	4A	O.04	fcrc4180	4A	0.04
mioa2647	4A	O.04	hfcr2657	4A	0.04
fcr2542	4A	O.04	mioa3940	4A	0.04
fcrbl916	4A	O.04	fcrb5259	4A	0.04
fcrb2190	4A	O.04	fcrc6771	4A	0.04
miob9679	4A	O.04	mioc5603	4A	0.04
ncr2866	4A	O.04	mioc8945	4A	0.04
ncrc9758	4A	O.04	ncrc3171	4A	0.04
mioc4534	4A	O.04	ncrc4885	4A	0.04
seob9884	4A	O.04	ncrc9168	4A	0.04
fcr5006	4A	O.04	ncrc94 40	4A	0.04
fcrc2808	4A	O.04	seoa7340	4A	0.04
miob4346	4A	O.04	seoc0951	4A	0.04
seoa2768	4A	O.04	seob7274	4A	0.04
fcrcl298	4A	O.04	hfcr4349	4A	0.04
fcrb3309	4A	O.04	miob8345	4A	0.04
miob2960	4A	O..04	fcrb64 64	4A	0.04
miob6459	4A	O..04	ncr2995	4A	0.04
mioc8917	4A	O..04	seob6386	4A	0.04
ncr5192	4A	O..04	ncrc6996	4A	0.04
ncr5781	4A	O..04	seob9970	4A	0.04
mioc8278	4A	o,.04	ncrb7166	4A	0.04
mioa0075	4A	o ,04	seoc7020	4A	0.04
ncrc3321	4A	o ,04	ncrc6459	4A	0.04
ncrb0090	4A	o ,04	miocl135	4A	0.04
fcrb2059	4A	o ,04	hfcr3931	4A	0.04
fcrb2350	4A	o ,04	fcrc2346	4A	0.04
fcrb3629	4A	o ,04	hfcr2930	4A	0.04
fcrb5114	4A	o ,04	miob3595	4A	0.04
seocl307	4A	o ,04	seoc8115	4A	0.04
fcr5498	4A	o ,04	fcr4272	4A	0.04
fcrc5126	4A	o ,04	fcrb3894	4A	0.04
fcr3772	4A	o ,04	fcrc6461	4A	0.04
fcrb4365	4A	o .04	miob8 627	4A	0.04
ncr2288	4A	o .04	seoa2244	4A	0.04
ncr2576	4A	o ,04	miod6162	4A	0.04
fcr3072	4A	o .04	ncr5645	4A	0.04
seoa3634	4A	O.04	fcrb2722	4A	0.04
fcrb4543	4A	O.04	fcrb6897	4A	0.04
mioa8773	4A	O.04	mioa6739	4A	0.04
seoa7899	4A	O.04	miod3106	4A	0.04
fcrb2502	4A	O.04	ncrc9469	4A	0.04
seoa0186	4A	O.04	seoal419	4A	0.04
mioc0226	4A	O.04	seob7569	4A	0.04
mioc7352	4A	O.04	seoc5156	4A	0.04
hfcr5905	4A	O.04	miod7440	4C	2.44e-07
seoa9131	4A	O.04	fcr3053	4C	3.37e-07
ncr3297	4A	O.04	seoc2029	4C	6.23e-07
hfcr5244	4A	O.04	fcr3181	4C	7.1e-07
miod0080	4A	O.04	ncr3163	4C	2.24e-06
seob3163	4A	O.04	mioc7170	4C	2.53e-06
mioa5511	4A	O.04	mioa2072	4C	3.26e-06
mioa7169	4A	O.04	seob4303	4C	3.35e-06
fcrb5198	4A	O.04	seob5523	4C	4.23e-06

seob4419	4C	4.2?e-06	seob0154	4C	1.23e-04
fcrc3993	4C	4.37e-06	fcrb1960	4C	1.25e-04
seoa4461	4C	5.29e-06	seoa0231	4C	1.25e-04
seoa6032	4C	5.48e-06	seob6576	4C	1.27e-04
miod5349	4C	6.31e-06	mioa5059	4C	1.29e-04
mioc3430	4C	7.49e-06	seob6189	4C	1.32e-04
seoa8894	4C	1.1e-05	miod7 414	4C	1.36e-04
mioa9473	4C	1.36e-05	seoa1427	4C	1.38e-04
fcrb3227	4C	1.45e-05	miob6881	4C	1.44e-04
fcrb4534	4C	1.46e-05	fcrO253	4C	1.45e-04
seob2697	4C	1.66e-05	seoa2585	4C	1.47e-04
seoc0775	4C	1.67e-05	ncrO223	4C	1.5e-04
ncr3751	4C	1.95e-05	seob3313	4C	1.51e-04
seoa4518	4C	2.47e-05	seoa4717	4C	1.52e-04
seoa6133	4C	2.48e-05	seob6851	4C	1.55e-04
miob65 62	4C	2.52e-05	miob8812	4C	1.56e-04
seob0085	4C	3.04e-05	fcrb3461	4C	1.6e-04
seoa8566	4C	3.22e-05	mioa4009	4C	1.63e-04
seoa8754	4C	3.62e-05	ncrc6171	4C	1.66e-04
mioa2788	4C	4.4e-05	seoc1023	4C	1.66e-04
mioa3367	4C	4.43e-05	seoa0959	4C	1.68e-04
ncrc5243	4C	4.53e-05	seob4029	4C	1.69e-04
ncr7668	4C	4.63e-05	mioa4014	4C	1.73e-04
fcrb3578	4C	4.7e-05	fcrb2704	4C	1.74e-04
seob3326	4C	4.9e-05	seob3189	4C	1.76e-04
fcr2952	4C	5.1e-05	miob3953	4C	1.77e-04
miob6419	4C	5.13e-05	miod5651	4C	1.77e-04
miod5123	4C	5.49e-05	seoa2970	4C	1.77e-04
mioa9179	4C	5.61e-05	seob5748	4C	1.79e-04
seob4333	4C	5.73e-05	ncr7904	4C	1.8e-04
seob6853	4C	5.74e-05	ncr8588	4C	1.82e-04
ncrcO729	4C	5.77e-05	hfcr2390	4C	1.83e-04
seoa8916	4C	5.83e-05	seob1231	4C	1.85e-04
seob3518	4C	5.95e-05	miod5505	4C	1.89e-04
mioa3963	4C	6.04e-05	fcrb3654	4C	1.91e-04
seoa9373	4C	6.54e-05	seob6751	4C	2.02e-04
mioa4 636	4C	6.55e-05	mioa6130	4C	2.04e-04
crO471	4C	6.77e-05	seoc2264	4C	2.1e-04
miob6430	4C	7.39e-05	fcr7587	4C	2.15e-04
seoa1940	4C	7.43e-05	fcrb2554	4C	2.2e-04
mioa3913	4C	7.5e-05	ncrO212	4C	2.21e-04
fcrb1892	4C	7.58e-05	ncr3197	4C	2.22e-04
seoa9042	4C	7.7e-05	fcr2607	4C	2.23e-04
seoa0032	4C	8.0e-05	hfcr3256	4C	2.23e-04
mioa2319	4C	8.18e-05	fcr4846	4C	2.28e-04
seob5240	4C	8.29e-05	fcrc1381	4C	2.28e-04
ncrc9899	4C	8.35e-05	miob0167	4C	2.32e-04
fcr5075	4C	8.62e-05	mioa0311	4C	2.33e-04
ncrb2092	4C	8.8e-05	seoc1175	4C	2.33e-04
hfcr8902	4C	8.84e-05	mioc4022	4C	2.34e-04
seoa9482	4C	9.27e-05	mioa8970	4C	2.35e-04
seob6004	4C	9.64e-05	seob0065	4C	2.35e-04
fcrb7339	4C	9.87e-05	seob1911	4C	2.39e-04
fcrb8516	4C	9.9e-05	mioa3939	4C	2.4e-04
hfcr3043	4C	1.0e-04	ncr0045	4C	2.44e-04
ncrc5434	4C	1.0e-04	seoc0999	4C	2.44e-04
fcr4 477	4C	1.01e-04	fcrcO554	4C	2.48e-04
fcrc3739	4C	1.03e-04	seoc1203	4C	2.49e-04
fcrb6939	4C	1.04e-04	fcrc0075	4C	2.58e-04
hfcr5919	4C	1.04e-04	fcr6235	4C	2.6e-04
mioa3923	4C	1.12e-04	seoc4960	AC	2.65e-04
seob4427	4C	1.16e-04	miob6223	4C	2.67e-04
ncrb4441	4C	1.22e-04	seob4191	4C	2.69e-04
hfcr1137	4C	1.23e-04	mioc2726	4C	2.7e-04

-ftu"ob8 6"94-	""4C	"2:87e-04	fcr4831	4C	5.97e-04
ncr0258	4C	2.89e-04	mioa0595	4C	6.04e-04
ncr4126	4C	2.91e-04	seob9145	4C	6.11e-04
mioc6260	4C	2.92e-04	mioal662	4C	6.2e-04
fcrb6012	4C	3.0e-04	fcrc3750	4C	6.22e-04
seoa4053	4C	3.03e-04	seoal102	4C	6.3e-04
seob6467	4C	3.03e-04	miod4759	4C	6.36e-04
fcrc0112	4C	3.06e-04	mioc7686	4C	6.41e-04
ncr0153	4C	3.07e-04	ncrb2266	4C	6.45e-04
ncrl631	4C	3.07e-04	seob6835	4C	6.58e-04
seoa4366	AC	3.08e-04	mioa2537	4C	6.62e-04
seoc6169	4C	3.11e-04	seoa3717	4C	6.62e-04
mioal585	4C	3.13e-04	fcrc3009	4C	6.69e-04
hfcr3011	4C	3.15e-04	mioc8410	4C	6.98e-04
seoa5662	4C	3.21e-04	mioa6418	4C	7.09e-04
seoa0486	4C	3.23e-04	mioc0950	4C	7.19e-04
seoa2949	4C	3.29e-04	miodl925	4C	7.23e-04
fcrc0487	4C	3.31e-04	ncrc9910	4C	7.24e-04
ncr3837	4C	3.33e-04	seoa0221	4C	7.25e-04
mioa7317	4C	3.37e-04	mioc5532	4C	7.27e-04
hfcrl863	4C	3.39e-04	mioc4089	4C	7.46e-04
fcr257 3	4C	3.43e-04	mioc7764	4C	7.57e-04
seob5743	4C	3.48e-04	seoa4681	4C	7.58e-04
mioa5695	4C	3.5e-04	seob6131	4C	7.61e-04
fcrb6968	4C	3.6e-04	seob3303	4C	7.67e-04
seob7584	4C	3.63e-04	mioa4552	4C	7.78e-04
ncrc0342	4C	3.76e-04	ncr8843	4C	7.83e-04
ncrc5417	4C	3.79e-04	seoa9537	4C	7.83e-04
seob3854	4C	3.91e-04	seob9574	4C	7.88e-04
seob6279	4C	3.96e-04	seob0308	4C	7.98e-04
fcrb8504	4C	3.99e-04	mioall93	4C	8.04e-04
seob3367	4C	4.04e-04	seobl318	4C	8.04e-04
fcrb7830	4C	4.09e-04	hfcr6687	AC	8.17e-04
seob3182	4C	4.09e-04	fcrbl496	4C	8.19e-04
hfcr4489	4C	4.15e-04	miob8320	4C	8.21e-04
fcrb4428	4C	4.19e-04	seob0376	AC	8.21e-04
ncr0898	4C	4.21e-04	seoa8979	4C	8.23e-04
mioc8057	4C	4.39e-04	seoa9357	4C	8.24e-04
miobl231	4C	4.43e-04	ncrb0782	4C	8.27e-04
mioc2911	4C	4.49e-04	seob3923	4C	8.31e-04
fcr5559	4C	4.69e-04	ncr2293	4C	8.33e-04
seoa6497	4C	4.69e-04	seob0755	AC	8.35e-04
seoa6598	4C	4.73e-04	hfcr0478	4C	8.43e-04
fcrl463	4C	4.77e-04	ncr0733	4C	8.46e-04
fcr2103	4C	4.84e-04	hfcr5220	4C	8.48e-04
seob3191	4C	4.89e-04	ncrc5844	4C	8.48e-04
seobl319	4C	4.91e-04	mioa5355	4C	8.58e-04
miod6845	4C	4.99e-04	ncr8041	4C	8.61e-04
ncrc5663	4C	5.0e-04	fcr0824	4C	8.62e-04
seob6844	4C	5.04e-04	seob2994	4C	8.67e-04
mioa9510	4C	5.12e-04	seob3119	AC	8.73e-04
ncrc4597	4C	5.18e-04	fcrb8668	4C	8.75e-04
fcr3664	4C	5.26e-04	seob6206	4C	8.88e-04
seob4 669	4C	5..33e-04	mioa6731	4C	8.9e-04
seob9282	4C	5_.33e-04	fcrb2556	4C	8.98e-04
ncr7813	4C	5_.48e-04	ncr5568	4C	9.0e-04
seoa7530	4C	5.56e-04	mioc4667	4C	9.01e-04
seob0248	4C	5.56e-04	mioa5696	4C	9.03e-04
seoa0288	4C	5_.7e-04	hfcrl163	4C	9.1e-04
mioa6064	4C	5..71e-04	miob7156	4C	9.1e-04
seoc6703	4C	5.75e-04	ncr0808	4C	9.12e-04
miob9907	4C	5.82e-04	hfcr3019	4C	9.19e-04
ncrc8903	4C	5.88e-04	fcrc3048	4C	9.26e-04
seob2148	4C	5.88e-04	fcrb9454	4C	9.3e-04

Se'oa'631'5-	·4cf·	"T.33E-04	miodl195	4C	1.431152e-03
fcrb9655	4C	9.37e-04	fcrb24 84	4C	1.447281e-03
ncrc0715	4C	9.39e-04	mioc6987	4C	1.45158e-03
seoa8348	4C	9.56e-04	fcrl879	4C	1.452287e-03
fcrb9420	4C	9.64e-04	mioa6721	4C	1.457877e-03
seob6272	4C	9.74e-04	seob6486	4C	1.458125e-03
fcr2798	4C	9.78e-04	seoa3516	4C	1.46015e-03
seocl996	4C	9.81e-04	ncr0025	4C	1.469905e-03
hfcr6486	4C	9.83e-04	hfcrl310	4C	1.478083e-03
ncrc9280	4C	1.0e-03	fcr3101	4C	1.487316e-03
seoa5090	4C	1.007122e-03	fcrb9959	4C	1.48762e-03
mioa2173	4C	1.00875e-03	fcrb5214	4C	1.490057e-03
ncrb5595	4C	1.013841e-03	ncrb4182	4C	1.50404e-03
fcrb2933	4C	1.016356e-03	ncrb3702	4C	1.511682e-03
fcr7043	4C	1.016688e-03	ncr7595	4C	1.511845e-03
miodl236	4C	1.028284e-03	mioa0577	4C	1.518616e-03
seob64 46	4C	1.030592e-03	ncr8975	4C	1.524283e-03
seob2936	4C	1.039004e-03	seob4579	4C	1.527065e-03
ncrb8693	4C	1.046851e-03	fcr4128	4C	1.53383e-03
mioa9154	4C	1.070876e-03	ncrc5162	4C	1.553082e-03
seoa6658	4C	1.070876e-03	ncr5168	AC	1.55656e-03
ncrb2288	AC	1.076406e-03	ncrb3001	4C	1.557302e-03
fcrc7388	4C	1.081745e-03	fcrb8187	4C	1.573331e-03
fcrb9588	4C	1.089146e-03	ncrb4039	4C	1.584396e-03
miob8572	4C	1.097548e-03	miodl δ11	4C	1.590472e-03
seob8204	4C	1.099016e-03	seoa9740	4C	1.598061e-03
miob3982	4C	1.105438e-03	mioa3080	4C	1.603678e-03
ncrc0174	4C	1.123083e-03	hfcr3500	4C	1.610297e-03
miod5310	4C	1.129688e-03	mioa8852	4C	1.618546e-03
hfcr5604	4C	1.140826e-03	mioa0494	4C	1.619093e-03
seoa7443	4C	1.140826e-03	seoa0111	4C	1.622252e-03
fcrbl855	4C	1.142061e-03	ncr3782	AC	1.63287e-03
ncr3713	4C	1.150048e-03	ncrc5569	AC	1.637974e-03
fcrb9269	4C	1.150659e-03	mioc6075	4C	1.640004e-03
mioa3395	4C	1.154329e-03	seoa111 δ	4C	1.653668e-03
seob8368	4C	1.154981e-03	mioa4076	4C	1.665908e-03
seob0122	4C	1.171391e-03	seoa4305	4C	1.678116e-03
mioa0535	4C	1.173792e-03	fcrc6826	4C	1.682437e-03
miobl062	4C	1.177608e-03	mioal015	4C	1.68644e-03
seobl793	4C	1.177608e-03	seob2185	4C	1.70771e-03
seocl593	4C	1.178329e-03	fcrc2090	4C	1.719751e-03
miob9336	4C	1.178419e-03	seoa9870	4C	1.728369e-03
ncrc0090	4C	1.185916e-03	seobl414	4C	1.747109e-03
seobl862	4C	1.201035e-03	seoa9828	4C	1.753504e-03
seoa3105	4C	1.211669e-03	fcrb3165	4C	1.760242e-03
seob3670	4C	1.23222e-03	seoal598	4C	1.770719e-03
hfcr6406	4C	1.239885e-03	fcrc2099	4C	1.790284e-03
miob4867	4C	1.2560936-03	seobl766	4C	1.794891e-03
ncrcl140	4C	1.256093e-03	hfcrl743	AC	1.798381e-03
fcr5720	4C	1.2614e-03	seobl908	AC	1.798381e-03
miod6238	4C	1.278208e-03	seob4545	4C	1.798381e-03
mioc7331	4C	1.301405e-03	fcrc5516	4C	1.799844e-03
ncrc6005	4C	1.305117e-03	hfcr5228	4C	1.800664e-03
miodl942	4C	1.305311e-03	mioa5692	4C	1.800664e-03
mioa0909	4C	1.312146e-03	seob4555	AC	1.800664e-03
seobl879	4C	1.347303e-03	fcrbl420	4C	1.801622e-03
miob6904	4C	1.355302e-03	fcr3595	4C	1.803204e-03
mioc2880	4C	1.356947e-03	ncr2666	4C	1.803204e-03
seob6368	4C	1.361315e-03	ncr2905	4C	1.815247e-03
ncr2472	4C	1.365497e-03	fcrb8940	4C	1.834572e-03
ncrb8385	4C	1.369106e-03	miob54 95	4C	1.838333e-03
fcrl756	4C	1.392986e-03	ncr3368	4C	1.838333e-03
fcr2088	4C	1.408465e-03	fcrbl807	4C	1.859263e-03
miob3348	4C	1.428182e-03	ncrc5054	4C	1.860924e-03

Se'ob'6525	4C	`r:861275e-03`	seoa5577	4C	2.367648e-03
seoc0924	4C	1.861444e-03	seoa5235	4C	2.369839e-03
seoa8399	4C	1.88316e-03	ncrb8273	4C	2.393454e-03
fcrb81β1	4C	1.885852e-03	fcrb3134	4C	2.402582e-03
mioal520	AC	1.887743e-03	mioa9294	4C	2.412283e-03
fcrb8740	4C	1.892065e-03	hfcrl697	4C	2.435634e-03
seob2810	4C	1.901388e-03	ncrc5369	4C	2.435634e-03
fcr5758	4C	1.909224e-03	seob5219	4C	2.439695e-03
mioc8423	4C	1.916815e-03	mioc6114	4C	2.46067e-03
ncrc9729	4C	1.919544e-03	miob8143	4C	2.489145e-03
hfcr5695	4C	1.956159e-03	seoal173	4C	2.502414e-03
seoc4380	4C	1.956915e-03	seoa3670	4C	2.543649e-03
fcrb2871	4C	1.964974e-03	miob0189	4C	2.57178e-03
miod0592	4C	1.985622e-03	miob2705	4C	2.574869e-03
ncrc0150	4C	1.985831e-03	seoa8232	4C	2.578028e-03
fcrb2060	4C	1.99746e-03	fcr5123	4C	2.597097e-03
hfcr0415	4C	1.99746e-03	inioa6854	4C	2.602922e-03
seoa7555	4C	1.99746e-03	ncrc5061	4C	2.618499e-03
fcr2079	4C	2.016524e-03	seoc0369	4C	2.638551e-03
miod0340	4C	2.021229e-03	fcr0139	4C	2.651872e-03
seocl025	4C	2.02575e-03	fcr7004	AC	2.657357e-03
fcrb8080	4C	2.025786e-03	mioa9505	4C	2.658032e-03
mioc0824	4C	2.034483e-03	mioc8434	4C	2.661058e-03
seob0201	4C	2.050861e-03	seob7465	4C	2.711845e-03
fcrb9720	4C	2.057033e-03	fcrb4409	4C	2.722505e-03
fcr5470	4C	2.060807e-03	seoc0276	4C	2.725532e-03
ncrc4079	4C	2.066895e-03	fcr0999	4C	2.730498e-03
hfer0624	4C	2.085152e-03	hfcr4488	4C	2.731117e-03
ncrb3329	4C	2.085152e-03	seoa0563	4C	2.731117e-03
seob6015	4C	2.09993e-03	fcr3559	4C	2.734761e-03
fcr4782	4C	2.115262e-03	mioal660	4C	2.749542e-03
fcrbl733	4C	2.120875e-03	seoc0513	4C	2.753054e-03
fcrb9843	4C	2.120966e-03	ncrc9712	4C	2.760324e-03
ncr0238	4C	2.1386e-03	miod5707	4C	2.770552e-03
mioc7895	4C	2.143605e-03	miob8711	4C	2.809832e-03
fcrb3718	4C	2.145161e-03	seob3307	4C	2.811695e-03
seob6670	4C	.155534e-03	seob9946	4C	2.84126e-03
seob8501	4C	2.166556e-03	mioc7744	4C	2.845792e-03
miod2525	4C	2.174809e-03	seoa8543	4C	2.874349e-03
mioc6312	4C	2.199817e-03	miob3898	4C	2.881671e-03
hfcrl733	4C	2.209362e-03	seoa8642	4C	.881671e-03
ncrb4957	4C	2.210616e-03	mioa7140	4C	2.898369e-03
seob0089	4C	2.211811e-03	seoa7546	4C	2.919393e-03
hfcr6651	4C	2.216864e-03	fcr4763	4C	2.928101e-03
hfcrl302	4C	2.226095e-03	miob5016	4C	2.928675e-03
seob4050	4C	2.226095e-03	fcrcl849	4C	2.952953e-03
fcrb2536	4C	2.230106e-03	ncrc3464	4C	2.965232e-03
mioa8851	4C	2.23281e-03	fcrb3483	4C	2.983789e-03
fcr3121	4C	2.234303e-03	seob9649	AC	2.997767e-03
seoa2012	4C	2.255872e-03	seoa4600	AC	2.998627e-03
seoclll8	4C	2.258564e-03	seoa0008	AC	3.007551e-03
fcr7419	4C	2.260166e-03	seob0168	4C	3.016761e-03
seob7432	4C	2.272415e-03	seob2221	4C	3.044324e-03
mioc4318	4C	2.279552e-03	ncrc5079	AC	3.050155e-03
fcrc0695	4C	2.279562e-03	fcrb9481	AC	3.074875e-03
seoa8443	4C	2.285067e-03	ncrb0054	AC	3.127244e-03
fcrc6566	4C	2.298537e-03	seoa3533	4C	3.13784e-03
miobl326	4C	2.329343e-03	miod5369	4C	3.159305e-03
miob4475	4C	2.330183e-03	seoa5683	4C	3.160612e-03
ncrc9469	4C	2.33257e-03	fcrb2218	4C	3.164316e-03
fcr0224	4C	2.334725e-03	mioa0407	4C	3.167049e-03
miod6467	4C	2.34447e-03	fcrb7693	4C	3.203691e-03
seob4273	4C	2.355513e-03	seoa9160	4C	3.207335e-03
hfcr6700	4C	2.362015e-03	miob4836	4C	3.218792e-03

rtcto'4'> β··	≈C"- i"	3t245 ·826e-03	seob3869	4C	4.093483e-03
ncrb6530	4C	3.252247e-03	seoa2641	4C	4.10684e-03
ncrc0100	4C	3.298912e-03	seoa6620	4C	4.118774e-03
ncrc2776	4C	3.322303e-03	mioc0741	4C	4.154883e-03
ncrb3942	4C	3.332792e-03	fcrb9694	4C	4.20251e-03
ncrb0513	4C	3.349517e-03	ncrc4531	4C	4.208322e-03
ncrl387	4C	3.356296e-03	ncrb7292	4C	4.220365e-03
ncrb0145	4C	3.359507e-03	miod4140	4C	4.240281e-03
fcrb3017	4C	3.376066e-03	hfcr0045	4C	4.261381e-03
ncrc5091	4C	3.385978e-03	ncrc9877	4C	4.26595e-03
fcrc0241	4C	3.422538e-03	seoc2191	4C	4.272909e-03
seob0514	4C	3.423122e-03	mioc3716	4C	4.281847e-03
ncr8866	4C	3.437719e-03	fcrb3725	4C	4.312352e-03
fcrc6888	4C	3.449333e-03	seoa9711	4C	4.329889e-03
miob9065	4C	3.456747e-03	ncrc9772	4C	4.399985e-03
seoa0549	4C	3.456908e-03	seoa6573	4C	4.452642e-03
mioa3514	4C	3.46245e-03	mioa0380	4C	4.489956e-03
ncr3237	4C	3.46245e-03	mioal097	4C	4.509349e-03
ncrc4991	4C	3.4643e-03	seob3462	4C	4.509349e-03
seob3499	4C	3.4643e-03	mioa8811	4C	4.52055e-03
ncrc9855	4C	3.46879e-03	fcrc0959	4C	4.530274e-03
seoal036	4C	3.477733e-03	seob3154	4C	4.531125e-03
miod6029	4C	3.517177e-03	mioa0890	4C	4.570501e-03
ncr2013	4C	3.51941e-03	fcrc6335	4C	4.58749e-03
seob4972	4C	3.531512e-03	ncrc5760	4C	4.601184e-03
hfcr0130	4C	3.533831e-03	mioal354	4C	4.601629e-03
fcrb4378	4C	3.540302e-03	mioal427	4C	4.633362e-03
mioc3726	4C	3.550472e-03	ncrc3840	4C	4.633362e-03
seob2188	4C	3.584274e-03	seoa0799	4C	4.633362e-03
seobl667	4C	3.640309e-03	seoa4040	4C	4.639931e-03
seoa6661	4C	3.644681e-03	miod4348	4C	4.655192e-03
seoal720	4C	3.649977e-03	seoa7902	4C	4.66728e-03
seob2108	4C	3.666209e-03	seoa2978	4C	4.686163e-03
ncr0478	4C	3.666381e-03	ncrc5150	4C	4.691321e-03
fcrb2249	4C	3.695741e-03	ncrl563	4C	4.707547e-03
ncrb8134	4C	3.708615e-03	seob4621	4C	4.707547e-03
seob9750	4C	3.708927e-03	fcrc7047	4C	4.744327e-03
fcr6577	4C	3.735652e-03	seob5562	4C	4.746427e-03
hfcr0676	4C	3.735778e-03	ncrb4912	4C	4.752707e-03
miob24 92	4C	3.735778e-03	mioa6739	4C	4.778158e-03
mioal971	4C	3.738256e-03	seoa4395	4C	4.779169e-03
seob5954	4C	3.738256e-03	hfcr6468	4C	4.79651e-03
miob8 932	4C	3.752087e-03	ncrb8253	4C	4.799003e-03
ncrc4808	4C	3.775334e-03	seoa5986	4C	4.799003e-03
mioa5085	4C	3.775842e-03	miob5736	4C	4.80808e-03
seoa4586	4C	3.780119e-03	seoa7517	4C	4.870405e-03
seoa3408	4C	3.790116e-03	mioa0826	4C	4.884238e-03
hfcr0370	4C	3.8121e-03	fcrb4415	4C	4.898061e-03
mioa8774	4C	3.812303e-03	mioa6621	4C	4.904983e-03
seobl187	4C	3.817075e-03	miocl122	4C	4.93196e-03
fcr3155	4C	3.832262e-03	ncrc6795	4C	4.933324e-03
ncr2182	4C	3.847974e-03	seoa3847	4C	4.942903e-03
ncrc9557	4C	3.849741e-03	mioa9831	4C	4.946737e-03
xiob0974	4C	3.874121e-03	fcr5625	4C	4.99519e-03
fcrb6009	4C	3.925377e-03	ncr3684	4C	5.017654e-03
mioc5643	4C	3.926872e-03	hfcr2287	4C	5.054567e-03
miod7243	4C	3.934025e-03	fcrc2576	4C	5.063792e-03
ncrc3434	4C	3.939813e-03	fcrc0430	4C	5.084925e-03
seob0200	4C	3.979023e-03	ncrc5672	4C	5.11611e-03
hfcr9613	4C	4.011004e-03	fcr6497	4C	5.124127e-03
miob4055	4C	4.011569e-03	mioa5468	4C	5.124127e-03
miob4956	4C	4.05244e-03	seoa6923	4C	5.124127e-03
miob0154	4C	4.08718e-03	miob0865	4C	5.128184e-03
seoa2442	4C	4.093483e-03	mioa8946	4C	5.185969e-03

fct0 Θ·&·	4C"	5-":r9Cf305e-03	ncr4550	4C	6.099859e-03
ncrc5039	4C	5.197151e-03	mioc7444	4C	6.13308e-03
hfcr5009	4C	5.200779e-03	seoa3704	4C	6.146625e-03
miod2639	4C	5.218734e-03	hfcr1265	4C	6.161536e-03
fcrc4360	4C	5.250167e-03	seob0321	4C	6.178138e-03
fcrb4241	4C	5.25156e-03	fcrb7981	4C	6.206858e-03
fcrc6563	4C	5.282794e-03	seob3520	4C	6.215767e-03
seoa2122	4C	5.287317e-03	ncrc0l0l	4C	6.221193e-03
fcr0768	4C	5.301658e-03	ncrb6833	AC	6.229488e-03
miod3854	4C	5.307923e-03	ncr0075	AC	6.26855e-03
fcrcl745	4C	5.32716e-03	mioa8952	4C	6.270044e-03
mioa4196	4C	5.344108e-03	ncr0766	4C	6.276933e-03
mioc8619	4C	5.353299e-03	ncrc6817	4C	6.276933e-03
ncrc4654	4C	5.369673e-03	mioa2013	4C	6.287512e-03
seob4515	4C	5.369673e-03	seob9485	AC	6.301111e-03
ncr6232	4C	5.407943e-03	miod4142	AC	6.383134e-03
mioc2074	4C	5.414445e-03	miob4593	4C	6.402894e-03
ncrc9758	4C	5.427537e-03	fcr5779	4C	6.474618e-03
ncr4545	4C	5.438486e-03	seoa6197	4C	6.486591e-03
ncr9429	4C	5.458161e-03	seob0703	4C	6.50097e-03
fcrb8ll0	4C	5.478029e-03	miob6821	4C	6.505915e-03
seoa0029	4C	5.480759e-03	ncrb8343	4C	6.552284e-03
seob0Cm	4C	5.509288e-03	seoa5911	4C	6.597064e-03
mioc0222	4C	5.512684e-03	mioc2166	4C	6.609859e-03
seoal856	4C	5.531453e-03	fcrb9352	4C	6.647947e-03
fcrc6854	4C	5.540234e-03	fcrb2292	AC	6.653984e-03
fcrc2082	4C	5.550695e-03	seob4039	AC	6.713668e-03
seob2987	4C	5.569207e-03	fcrb5422	4C	6.7264e-03
mioal473	4C	5.580693e-03	ncrc2119	4C	6.756046e-03
fcrb9871	4C	5.592316e-03	seob9552	4C	6.762169e-03
seob4030	4C	5.594557e-03	fcrb3841	4C	6.780973e-03
mioa2158	4C	5.639619e-03	miob6988	4C	6.80749e-03
fcr4795	4C	5.649808e-03	hfcrl760	4C	6.835569e-03
seob5726	4C	5.65605e-03	hfcr5473	4C	6.857537e-03
fcrb7852	4C	5.667225e-03	fcrc3415	4C	6.861942e-03
ncrl550	4C	5.713507e-03	hfcr5987	4C	6.867295e-03
mioa3471	4C	5.716154e-03	seoa0926	4C	6.867921e-03
mioa0132	4C	5.738039e-03	miobll15	AC	6.869801e-03
mioa8647	AC	5.768458e-03	fcr4380	AC	6.880921e-03
mioal445	4C	5.811166e-03	miob5412	4C	6.89987e-03
seoc3588	4C	5.826485e-03	ncr6335	4C	6.907692e-03
ncrc3468	4C	5.832748e-03	seoa3628	4C	6.949533e-03
miob9052	4C	5.833135e-03	seob9772	4C	6.956817e-03
mioc5664	4C	5.835444e-03	mioa9581	4C	6.958796e-03
fcrb2137	4C	5.84394e-03	ncr248 6	4C	6.982956e-03
hfcr5207	4C	5.84394e-03	miob0877	4C	6.983468e-03
mioa2327	4C	5.859459e-03	ncr0240	4C	6.999641e-03
fcrb9147	4C	5.861796e-03	seoa6137	4C	7.003723e-03
seob5458	4C	5.862878e-03	mioal337	4C	7.012816e-03
seoa5554	4C	5.877316e-03	fcr6415	4C	7.029261e-03
fcrb5254	4C	5.890258e-03	seobl385	4C	7.029563e-03
seoal552	4C	5.896449e-03	ncrb8207	4C	7.041692e-03
seoa3230	4C	5.898784e-03	hfcrl914	4C	7.057729e-03
fcrl844	4C	5.913324e-03	ncrl351	4C	7.095309e-03
fcrb52 67	4C	5.942373e-03	seob2803	AC	7.108081e-03
fcrb6896	4C	5.949973e-03	seob5012	AC	7.108081e-03
seoa4524	4C	5.958281e-03	seob7474	4C	7.109226e-03
fcrc0094	4C	5.96467e-03	mioc7818	4C	7.166952e-03
miob3684	4C	5.971717e-03	mioa4241	4C	7.17269e-03
fcr6390	4C	6.000719e-03	seoa2136	4C	7.196923e-03
seobl737	4C	6.007946e-03	seoa9935	4C	7.197022e-03
fcr2074	4C	6.018802e-03	fcr5339	4C	7.199684e-03
seoc2131	4C	6.08684e-03	miob2836	4C	7.210691e-03
fcr0608	4C	6.096137e-03	mioa0104	4C	7.212787e-03

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ncr3948	4C	7.237837e-03	seoal263	4C	8 .459946e-03
mioa6093	4C	7.268139e-03	seoa7459	4C	8 .497761e-03
seoal559	4C	7.27224e-03	seob2658	4C	8 .497761e-03
hfcr9549	4C	7.295285e-03	ncrc6871	4C	8 .532381e-03
seobll91	4C	7.325599e-03	seoa7474	4C	8 .568552e-03
miob4058	4C	7.329008e-03	ncrcl502	AC	8 .575665e-03
fcr5723	4C	7.369143e-03	fcrc2997	4C	8 .587588e-03
mioa0328	4C	7.377639e-03	mioa9891	4C	8 .689171e-03
seoc3993	4C	7.378389e-03	hfcr3928	4C	8 .732239e-03
miod5703	4C	7.424044e-03	mioa2478	4C	8 .749534e-03
fcr6044	4C	7.452917e-03	seoa7509	AC	8 .755591e-03
seob6560	4C	7.500236e-03	mioa6738	4C	8 .769774e-03
fcr βo1β	4C	7.53305e-03	seoa7178	4C	8 .77984e-03
miod6162	4C	7.584327e-03	seob5319	4C	8 .811962e-03
seoa2363	4C	7.617361e-03	fcrc0654	4C	8 .812335e-03
seob2169	4C	7.634987e-03	miobl506	AC	8 .830271e-03
fcr6616	4C	7.680441e-03	miodl331	AC	8 .912821e-03
fcr6931	4C	7.680441e-03	seoa5547	4C	8 .932311e-03
seoa6152	4C	7.680441e-03	seob3169	4C	8 .97374e-03
fcr4622	4C	7.681578e-03	mioa3629	4C	8 .97697e-03
mioal324	4C	7.698039e-03	miob3696	4C	8 .981708e-03
fcrb7944	4C	7.767483e-03	fcrc4054	4C	8 .989376e-03
ncrl802	4C	7.784697e-03	mioa2413	4C	9 .000025e-03
seob7729	AC	7.786058e-03	fcr2160	4C	9 .030333e-03
seob2966	4C	7.806257e-03	ncr4539	4C	9 .030333e-03
seob4108	4C	7.828518e-03	mioa0707	4C	9 .037843e-03
ncr2484	4C	7.879438e-03	ncr3496	4C	9 .054107e-03
ncrb3585	4C	7.879438e-03	ncrc0667	4C	9 .054835e-03
seoa0913	AC	7.91186e-03	seob4807	AC	9 .055692e-03
ncr0612	4C	7.925456e-03	ncrc9428	AC	9 .100754e-03
mioc7998	4C	7.939586e-03	mioa2652	AC	9 .114417e-03
seob9872	4C	7.94076e-03	miob34 61	4C	9 .117224e-03
mioc0375	4C	7.952967e-03	fcrb8877	AC	9 .135346e-03
fcrb6768	AC	7.961352e-03	fcr0707	AC	9 .142522e-03
seoa3245	4C	7.995448e-03	mioa9649	AC	9 .154014e-03
miob7309	4C	8.045055e-03	miob3938	AC	9 .20224e-03
hfcr5905	4C	8.045743e-03	seoa5933	AC	9 .204501e-03
miob2227	4C	8.045772e-03	miob5675	AC	9 .254824e-03
fcrb7113	4C	8.05715e-03	seoa2391	4C	9 .263207e-03
hfcr6501	4C	8.058052e-03	fcrb6191	4C	9 .290334e-03
ncrbl373	4C	8.093663e-03	ncrc0383	4C	9 .294641e-03
fcrc0295	4C	8.130412e-03	miob4743	AC	9 .329707e-03
mioa9717	4C	8.135586e-03	ncrb3284	AC	9 .343469e-03
seob4209	4C	8.135586e-03	ncrc6953	4C	9 .345199e-03
miod2665	4C	8.152135e-03	ncrc4757	4C	9 .409517e-03
fcrc3358	4C	8.156756e-03	seob5032	4C	9 .43118e-03
fcr4 965	4C	8.164022e-03	ncrb6453	4C	9 .583937e-03
mioc6997	4C	8.185087e-03	ncrc5553	4C	9 .583937e-03
miobl4 93	4C	8.197903e-03	seob0418	4C	9 .583937e-03
fcr0593	4C	8.19812e-03	seob0810	4C	9 .583937e-03
fcr4129	4C	8.215271e-03	mioa4548	4C	9 .611891e-03
ncr0912	4C	8.275646e-03	fcrc5846	AC	9 .622113e-03
seob0466	4C	8.285506e-03	fcrbl503	AC	9 .664889e-03
mioa9630	4C	8.304775e-03	ncrcl873	AC	9 .678381e-03
ncrb6192	4C	8.312148e-03	ncrc0846	AC	9 .679567e-03
seoc2824	4C	8.3183e-03	seob3064	4C	9 .679567e-03
seoa0070	4C	8.335344e-03	seob5778	4C	9 .689819e-03
seoal736	4C	8.342294e-03	fcrb5537	4C	9 .69729e-03
miob9848	4C	8.369066e-03	hfcrl419	4C	9 .717051e-03
seoall04	4C	8.378822e-03	mioa6035	4C	9 .789009e-03
ncr0634	4C	8.421583e-03	seoa0003	4C	9 .794242e-03
seoa5465	4C	8.437929e-03	seoc4416	4C	9 .841173e-03
seob8065	4C	8.459463e-03	seob6492	4C	9 .84478e-03

mioa8998	-Jfc	9.613-8"6e-03	fcrb8162	4C	0.01
ncrb1802	4C	9.861386e-03	fcrb3702	4C	0.01
seob8817	4C	9.894482e-03	seoa4017	AC	0.01
fcrb1578	AC	9.906745e-03	seob5441	AC	0.01
fcz2164	AC	9.970513e-03	mioa9792	4C	0.01
seoa4452	4C	9.989774e-03	mioa2536	4C	0.01
miob8214	4C	0.01	seoc3876	4C	0.01
miod2837	4C	0.01	hfcr5237	4C	0.01
mioc4366	4C	0.01	seoa6393	AC	0.01
fcr5354	AC	0.01	mioa9033	AC	0.01
fcr0955	AC	0.01	fcr3823	AC	0.01
fcrc3240	4C	0.01	ncrc0304	AC	0.01
fcr4699	AC	0.01	ncrb4390	AC	0.01
ncr0132	AC	0.01	hfcrll01	AC	0.01
seoa0511	AC	0.01	fcrc0350	AC	0.01
fcrb2713	AC	0.01	fcrb4570	AC	0.01
miob6797	AC	0.01	hfcr0237	AC	0.01
ncrb1956	AC	0.01	hfcr6716	AC	0.01
fcrc5351	AC	0.01	iniocl609	AC	0.01
mioa2580	AC	0.01	ncrc0292	AC	0.01
fcrb3651	AC	0.01	mioc3906	AC	0.01
hfcr0829	AC	0.01	seob3007	AC	0.01
seob1574	AC	0.01	miod6731	AC	0.01
seoa8556	AC	0.01	fcrb7588	AC	0.01
mioal285	AC	0.01	seoc2226	AC	0.01
seoa2162	AC	0.01	seob8693	AC	0.01
seobl383	AC	0.01	mioa4064	AC	0.01
hfcr6509	AC	0.01	fcrc0396	AC	0.01
ncrb0033	AC	0.01	ncrb4319	AC	0.01
miob4574	AC	0.01	miob9393	AC	0.01
fcrl337	AC	0.01	mioc3206	AC	0.01
ncrc3624	AC	0.01	seoa7478	AC	0.01
fcr2167	AC	0.01	ncrc8841	AC	0.01
mioa3812	AC	0.01	fcrc6990	AC	0.01
miob4037	AC	0.01	seob5927	AC	0.01
seoa9814	AC	0.01	mioal626	AC	0.01
seobl00 δ	AC	0.01	seoa7295	AC	0.01
seob6836	AC	0.01	fcrbl202	AC	0.01
ncr3402	AC	0.01	fcrcl689	AC	0.01
mioa4667	AC	0.01	mioa5773	AC	0.01
fcrl068	AC	0.01	seob9882	AC	0.01
mioa7015	AC	0.01	ncr3434	AC	0.01
miob2743	AC	0.01	miob2700	AC	0.01
seoa8300	AC	0.01	seob3170	AC	0.01
fcrb6785	4C	0.01	fcrc0379	AC	0.01
hfcr3149	4C	0.01	miob4 673	AC	0.01
fcrb5527	4C	0.01	ncrc3529	AC	0.01
mioa5461	4C	0.01	mioc3958	AC	0.01
ncrb8451	4C	0.01	seoa0172	AC	0.01
ncrc9368	4C	0.01	seob5213	AC	0.01
fcrb4109	4C	0.01	seoa6344	AC	0.01
seoa4264	4C	0.01	ncrc5806	AC	0.01
fcrc2948	4C	0.01	seob0478	AC	0.01
inioc0121	4C	0.01	mioc4247	AC	0.01
miod7457	4C	0.01	fcrb3704	AC	0.01
hfcr2148	4C	0.01	mioa5691	AC	0.01
seob3887	4C	0.01	ncr4202	AC	0.01
ncrb6087	4C	0.01	fcrcl216	AC	0.01
seobl916	4C	0.01	seob6133	AC	0.01
fcrc5577	4C	0.01	hfcrl671	AC	0.01
fcrb2635	4C	0.01	hfcr6256	4C	0.01
ncrc0863	AC	0.01	fcrl633	4C	0.01
seob4122	AC	0.01	fcrbl741	4C	0.01
fcrb3135	4C	0.01	seoc3603	4C	0.01

-fcrb6834"	4C	0.01	mioa8864	4C	0.01
fcr2958	4C	0.01	fcrb7453	4C	0.01
seoa2428	4C	0.01	seoa9729	4C	0.01
seoa1056	4C	0.01	ncrc6617	4C	0.01
miob0496	4C	0.01	hfcr1795	4C	0.01
seob3731	4C	0.01	fcrb5588	4C	0.01
seoc2447	4C	0.01	fcrb6432	4C	0.01
hfcr4114	4C	0.01	fcrc1758	4C	0.01
mioa7323	4C	0.01	fcr6881	4C	0.01
ncrb3936	4C	0.01	seoa3007	4C	0.01
miocl198	4C	0.01	seoa2957	4C	0.01
miod4407	4C	0.01	fcr0997	4C	0.01
fcrb4388	4C	0.01	fcrc1834	4C	0.01
fcr2102	4C	0.01	fcrbl320	4C	0.01
miob6437	4C	0.01	mioa5902	4C	0.01
mioc2694	4C	0.01	hfcr7966	4C	0.01
seoa4460	4C	0.01	ncr7082	4C	0.01
ncrb6432	4C	0.01	mioa4321	4C	0.01
seob1426	4C	0.01	seoc4288	4C	0.01
seob9645	4C	0.01	fcrb8119	4C	0.01
fcr4214	4C	0.01	fcrb2813	4C	0.01
ncr0847	4C	0.01	seobl906	4C	0.01
ncrc9217	4C	0.01	mioc6847	4C	0.01
mioa5097	4C	0.01	miob4793	4C	0.01
ncrb5197	4C	0.01	seoa8912	4C	0.01
ncrc9727	4C	0.01	fcrb8901	4C	0.01
seoa2639	4C	0.01	seob4896	4C	0.01
mioa2333	4C	0.01	miob3477	4C	0.01
seoc4909	4C	0.01	seobl646	4C	0.01
seoa9619	4C	0.01	ncrc9304	4C	0.01
ncr6142	4C	0.01	ncrc3536	4C	0.01
miod4342	4C	0.01	seoa0539	4C	0.01
fcrbl689	4C	0.01	seoa0844	4C	0.01
ncrc5592	4C	0.01	mioa6476	4C	0.01
seoa7094	4C	0.01	miod7351	4C	0.01
seoa8902	4C	0.01	fcrc4658	4C	0.01
mioc0899	4C	0.01	seoc7281	4C	0.01
fcr5509	4C	0.01	mioc7807	4C	0.01
ncrc4296	4C	0.01	miocl0 βo	4C	0.01
seoa4708	4C	0.01	hfcr5691	4C	0.01
mioa9093	4C	0.01	seocl230	4C	0.01
mioal279	4C	0.01	ncrb8790	4C	0.01
fcr0272	4C	0.01	miob2375	4C	0.01
hfcr2850	4C	0.01	ncrc9612	4C	0.01
fcr6937	4C	0.01	mioc7370	4C	0.01
miod3468	4C	0.01	seoa5429	4C	0.01
hfcr0521	4C	0.01	hfcr6640	4C	0.01
fcrb5675	4C	0.01	seob4570	4C	0.01
ncrc3453	4C	0.01	fcrl557	4C	0.01
miob3763	4C	0.01	ncrc9867	4C	0.01
seoa0457	4C	0.01	mioc2039	4C	0.01
fcrc6642	4C	0.01	fcrb3073	4C	0.01
miod6041	4C	0.01	ncr8290	4C	0.01
ncrc3045	4C	0.01	seoal653	4C	0.01
fcr5176	4C	0.01	ncrc6382	4C	0.01
fcrb5536	4C	0.01	miob7638	4C	0.01
ncrc2685	4C	0.01	miob4860	4C	0.01
seoa7212	4C	0.01	seob0263	4C	0.01
mioc7260	4C	0.01	mioc7509	4C	0.01
miod4539	4C	0.01	ncrc3258	4C	0.01
miob7373	4C	0.01	miob3411	4C	0.01
mioa2421	4C	0.01	mioa3646	4C	0.01
ncrl235	4C	0.01	hfcr2314	4C	0.01
ncrc9517	4C	0.01	seoa4107	4C	0.01

fict.7Cr85-	ifc	o.oi		seob9480	4C	O.01
fcrb3244	4C	0.01		seob4766	4C	O.01
seoa0931	4C	0.01		ncrb6661	4C	O.01
miob3471	4C	0.01		seob9756	4C	O.01
fcrb84 65	4C	0.01		fcrb6829	4C	O.01
seoc2253	4C	0.01		miod.6947	4C	O.01
ncr7267	4C	0.01		fcrl833	4C	O.01
fcrb50 92	4C	0.01		fcr3983	4C	O.01
ncrb4339	4C	0.01		mioal531	4C	O.01
mioc7561	4C	0.01		mioa8796	4C	O.01
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ncr8811	4C	0.01		fcr6386	4C	O.01
fcrc5797	4C	0.01		seoa3863	4C	O.01
mioal079	4C	0.01		fcrl305	4C	O.01
hfcr3413	4C	0.01		fcrb8092	4C	O.01
miob0973	4C	0.01		fcrb2596	4C	O.01
hfcrl709	4C	0.01		ncrc3141	4C	O.01
hfcr0285	4C	0.01		seoa8239	4C	O.01
fcr6314	4C	0.01		fcrbll 6O	4C	O.01
ncr0335	4C	0.01		ncrb6327	4C	O.01
fcr4927	AC	0.01		fcrc2969	4C	O.01
seoc0394	4C	0.01		ncrc6127	4C	O.01
seob4945	4C	0.01		mioa8539	4C	O.01
fcrb4739	4C	0.01		ncr8693	4C	O.01
fcrbl750	4C	0.01		fcr6266	4C	O.01
fcrcOl 6β	4C	0.01		fcr4272	AC	O.01
seob2011	AC	0.01		fcrb242 6	AC	O.01
ncrc4089	4C	0.01		seob2077	AC	O.01
ncrc0803	4C	0.01		ncrc2859	4C	O.01
fcrc2007	4C	0.01		fcrbl763	4C	O.01
hfcr2832	4C	0.01		mioa0152	AC	O.01
seoa3422	4C	0.01		seoc0866	AC	O.01
miob4157	4C	0.01		fcr0712	AC	O.01
ncr8893	4C	0.01		ncrb7102	AC	O.01
seoa3108	4C	0.01		hfcr4423	AC	O.01
mioa0246	4C	0.01		ncrc2613	AC	O.01
miob7391	4C	0.01		seob7764	4C	O.01
mioa6091	AC	0.01		hfcrl641	4C	O.01
ncr3811	AC	0.01		miod0686	4C	O.01
seob5886	4C	0.01		fcrb9856	4C	O.01
mioc4641	4C	0.01		miobl789	4C	O.01
seob4539	4C	0.01		ncr6141	4C	O.01
mioc8379	4C	0.01		mioa9935	AC	O.01
seob8104	4C	0.01		seoal979	AC	O.01
fcrb6251	4C	0.01		ncr7973	AC	O.01
fcrc0839	4C	0.01		seoa4727	AC	O.01
ncr8067	4C	0.01		fcrc5671	AC	O.01
seoa2272	4C	0.01		fcrb7392	AC	O.01
seoa0469	4C	0.01		seob6229	AC	O.01
ncr4118	4C	0.01		seoa2819	AC	O.01
seoa2817	4C	0.01		fcrb9639	AC	O.01
fcrb2020	4C	0.01		fcrb4294	AC	O.01
fcrb2305	4C	0.01		fcr0990	AC	O.01
ncrb8392	4C	0.01		mioa3799	AC	O.01
ncr7768	4C	0.01		miob0207	AC	O.01
hfcr5150	4C	0.01		seoa3144	4C	O.01
seob7 658	4C	0.01		seob5490	AC	O.01
seobl322	4C	0.01		fcrb9680	AC	o.01
ncr9919	4C	0.01		fcrl855	AC	o.01
ncr3396	4C	0.01		seoa5742	AC	o.01
miob9185	4C	0.01		fcrc4045	AC	o.01
seoa9724	4C	0.01		seob2081	AC	o.01
ncrcll76	4C	0.01		fcr7042	AC	o.01

"M'b&l 4"40	4C	τ."σ̈	seob0831	4C	0.02
ncrc3358	4C	0.01	ncrc9483	4C	0.02
ncrc2273	4C	0.01	seob5645	4C	0.02
ncrc5608	4C	0.01	seoc1264	4C	0.02
fcr3323	4C	0.01	fcr2940	4C	0.02
ncrb0262	4C	0.01	mioa2475	4C	0.02
seoa3639	4C	0.01	fcrc1660	4C	0.02
mioc4534	4C	0.01	seob9067	4C	0.02
ncrc9023	4C	0.01	ncr5713	4C	0.02
miob4238	4C	0.01	seob0745	4C	0.02
ncr0615	4C	0.01	seoa4023	4C	0.02
seob7744	4C	0.01	seob8807	4C	0.02
ncrc3072	4C	0.01	fcrb1529	4C	0.02
fcrb3298	4C	0.01	seoa3251	4C	0.02
mioa2156	4C	0.01	ncrc5363	4C	0.02
fcrc6174	4C	0.01	seob0763	4C	0.02
ncrc1952	4C	0.01	fcrb4238	4C	0.02
seoa5586	4C	0.02	miod2330	4C	0.02
seoa2962	4C	0.02	miod0441	4C	0.02
hfcr0383	4C	0.02	hfcr3441	4C	0.02
miod5698	4C	0.02	seoc1539	4C	0.02
hfcr3592	4C	0.02	miob3396	4C	0.02
fcrb1381	4C	0.02	mioc2539	4C	0.02
seob1617	4C	0.02	ncr7672	4C	0.02
fcr0018	4C	0.02	miob6372	4C	0.02
mioc4925	4C	0.02	fcrb2591	4C	0.02
seob1243	4C	0.02	seob2807	4C	0.02
ncrb6037	4C	0.02	fcrc4390	4C	0.02
seob3533	4C	0.02	hfcr3404	4C	0.02
fcrb1550	4C	0.02	fcrb2308	4C	0.02
miod1448	4C	0.02	fcrb2160	4C	0.02
miob4712	4C	0.02	fcrc4896	4C	0.02
ncrb3301	4C	0.02	miob304 4	4C	0.02
fcrb2658	4C	0.02	fcrc1763	4C	0.02
ncrc4885	4C	0.02	seoa6887	4C	0.02
seoa7935	4C	0.02	ncrc7043	4C	0.02
seoc4052	4C	0.02	ncrc3276	4C	0.02
seoa0256	4C	0.02	miob4975	4C	0.02
seoa0219	4C	0.02	seob6680	4C	0.02
mioa0647	4C	0.02	fcrb2690	4C	0.02
mioc4766	4C	0.02	mioa1062	4C	0.02
mioa0582	4C	0.02	fcr2859	4C	0.02
seob6041	4C	0.02	hfcr2598	4C	0.02
mioa1055	4C	0.02	ncrc3953	4C	0.02
ncrc5088	4C	0.02	fcrb1721	4C	0.02
miob4570	4C	0.02	mioc5307	4C	0.02
fcrc0529	4C	0.02	fcrb3519	4C	0.02
miod2128	4C	0.02	fcr5204	4C	0.02
miob2687	4C	0.02	seob0253	4C	0.02
ncr4416	4C	0.02	mioc4290	4C	0.02
fcrb5204	4C	0.02	fcr5618	4C	0.02
ncrb8063	4C	0.02	seoa3555	4C	0.02
miob7109	4C	0.02	seob0872	4C	0.02
fcr2299	4C	0.02	ncrc6981	4C	0.02
seob1834	4C	0.02	ncrc3544	4C	0.02
fcr7403	4C	0.02	hfcr5181	4C	0.02
fcrb6062	4C	0.02	seoa1584	4C	0.02
ncr5939	4C	0.02	seob2797	4C	0.02
seoc1948	AC	0.02	seob9635	4C	0.02
miob1337	4C	0.02	seoc1664	4C	0.02
seoa7608	4C	0.02	fcrb9499	4C	0.02
miob8 657	4C	0.02	seob4612	4C	0.02
fcr2276	4C	0.02	seob7622	4C	0.02
hfcr0225	4C	0.02	seoa8486	4C	0.02

Name	Col2	Value
hcr3035	ic	0.02
ncr2717	4C	0.02
seoal582	4C	0.02
mioa7602	4C	0.02
mioc0090	4C	0.02
mioc3930	4C	0.02
hfcr6366	4C	0.02
fcrb9751	4C	0.02
mioal058	4C	0.02
seob3356	4C	0.02
seob4075	4C	0.02
ncrb8665	4C	0.02
seoa6038	4C	0.02
fcrbl528	4C	0.02
seoa5382	4C	0.02
seoa6155	4C	0.02
ncrc5072	4C	0.02
seoa9817	4C	0.02
fcrcl965	4C	0.02
mioc2806	4C	0.02
mioa0204	4C	0.02
seoc4505	4C	0.02
hfcr3436	4C	0.02
miob8609	4C	0.02
fcrb2330	4C	0.02
ncrcl402	4C	0.02
fcrc4485	4C	0.02
ncr2792	4C	0.02
ncrc6439	4C	0.02
hfcr6164	4C	0.02
seob3451	4C	0.02
seoai883	4C	0.02
fcr5112	4C	0.02
mioa5 614	4C	0.02
seob9430	4C	0.02
fcr6534	4C	0.02
miod6068	4C	0.02
fcrb4252	4C	0.02
seob2642	4C	0.02
fcrb2189	4C	0.02
seob4118	4C	0.02
seoa8397	4C	0.02
seoa5302	4C	0.02
seob9614	4C	0.02
miob5646	4C	0.02
seoal571	4C	0.02
hfcrlll5	4C	0.02
seob3464	4C	0.02
ncrc9117	4C	0.02
miob0926	4C	0.02
ncrb0328	4C	0.02
ncrcl751	4C	0.02
fcrc0651	4C	0.02
ncr3778	4C	0.02
hfcrl856	4C	0.02
hfcr6932	4C	0.02
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fcrb6734	4C	0.02
seoa2620	4C	0.02
ncrc0640	4C	0.02
ncr9108	4C	0.02
seob9353	4C	0.02
ncrc0883	4C	0.02
fcr5425	4C	0.02
miobl734	4C	0.02
ncr5066	4C	0.02
fcr6573	4C	0.02
fcr4634	4C	0.02
ncr9165	4C	0.02
mioa8773	4C	0.02
fcr5889	4C	0.02
ncrc2413	4C	0.02
fcrb5702	4C	0.02
mioc2219	4C	0.02
seobl052	4C	0.02
miocl205	4C	0.02
mioa3342	4C	0.02
mioal071	4C	0.02
seob4752	4C	0.02
hfcr2295	4C	0.02
ncr2408	4C	0.02
miob0202	4C	0.02
hfcr3180	4C	0.02
seoa6412	4C	0.02
seoa8597	4C	0.02
fcrbl657	4C	0.02
seob2139	4C	0.02
seoa9873	4C	0.02
miod3591	4C	0.02
fcr4885	4C	0.02
fcr3620	4C	0.02
mioa4285	4C	0.02
ncrc3416	4C	0.02
ncr3843	4C	0.02
seoal789	4C	0.02
seoa4158	4C	0.02
fcrc7228	4C	0.02
ncrb8820	4C	0.02
seob5174	4C	0.02
fcrbl962	4C	0.02
mioc3208	4C	0.02
miob6610	4C	0.02
seob9266	4C	0.02
seob4726	4C	0.02
seoal065	4C	0.02
seob5044	4C	0.02
ncrc2018	4C	0.02
ncrc4313	4C	0.02
fcrb6436	4C	0.02
ncr3118	4C	0.02
seob8255	4C	0.02
seob6096	4C	0.02
ncrb7726	4C	0.02
fcrb2223	4C	0.02
hfcr2803	4C	0.02
ncrc7131	4C	0.02
mioc2173	4C	0.02
mioa6913	4C	0.02
ncrb6818	4C	0.02
seoa8177	4C	0.02
fcrc2670	4C	0.02
seoa5894	4C	0.02
ncr9549	4C	0.02
mioa2851	4C	0.02
ncrcl231	4C	0.02
fcr5316	4C	0.02

"-fdtbmr ᵐᵃⁱc ᶜ ᵗᵒ ₀₂

miob8341	4C	O.02		miod7337	4C	0.03
ncrc2888	4C	O.02		fcrc2678	4C	0.03
hfcr2629	4C	O.02		seoa8401	4C	0.03
seoal089	4C	O.02		hfcr0476	AC	0.03
mioa5531	4C	O.02		seob2134	AC	0.03
fcrcl947	4C	O.02		seob7404	AC	0.03
ncrb8751	4C	O.02		fcrb8949	4C	0.03
miob6456	4C	O.02		ncrc4903	4C	0.03
ncrc2472	AC	O.02		seob2750	AC	0.03
seoa0949	4C	O.02		fcrb5928	AC	0.03
fcrb8014	4C	O.02		ncr3465	AC	0.03
seob2816	4C	O.02		seoc2173	4C	0.03
seoa8640	4C	O.02		mioc4420	4C	0.03
ncrb8437	4C	O.02		seob7946	4C	0.03
miod6560	4C	O.02		mioc2950	4C	0.03
mioblOOl	AC	O.02		seoc3980	AC	0.03
fcrbl720	4C	O.02		mioa08 62	AC	0.03
seoa3287	4C	O.02		seoa9855	AC	0.03
miob4876	4C	O.02		mioa2522	AC	0.03
seob4992	4C	O.02		seoc4187	AC	0.03
miob8947	4C	O.02		ncrb8203	AC	0.03
miob3690	4C	O..02		ncrc5019	AC	0.03
fcrbl547	4C	O.02		seob0182	4C	0.03
miodl542	4C	O..02		hfcr3634	4C	0.03
ncrl912	4C	O..02		ncr2966	4C	0.03
fcrc5160	4C	O..02		ncrb8 649	4C	o.03
fcrb4275	4C	O..02		ncrb8821	4C	0.03
mioa4738	4C	O..02		fcrb64 60	4C	0.03
ncrcO583	4C	O..02		fcrb7616	4C	0.03
ncr5488	4C	o ‚02		ncr8995	4C	0.03
fcrcO591	4C	o ‚02		fcrb3306	4C	0.03
mioal494	4C	o ‚02		fcrb4599	4C	0.03
ncrcl595	4C	o ‚02		fcrb9253	AC	0.03
fcr6592	4C	o ‚02		seoa7442	AC	0.03
seob4835	4C	o ‚02		ncr4551	AC	0.03
fcrb7951	4C	o ‚03		seoa9930	AC	0.03
mioc2019	4C	o ‚03		hfcr2820	4C	0.03
fcrb2715	4C	o.03		mioc0317	AC	0.03
seoa7223	4C	o.03		seobl770	AC	0.03
seob2959	4C	o ‚03		seob3468	AC	0.03
seob9241	4C	o.03		mioa6582	AC	0.03
fcrclO19	4C	o.03		miob3531	AC	0.03
seob4480	4C	o.03		seoa9889	AC	0.03
raioa0308	4C	o.03		seoa7587	AC	0.03
ncr8542	4C	o.03		mioa22 68	4C	0.03
fcrb6185	4C	o.03		fcrb6102	AC	0.03
mioa5836	4C	o.03		ncrl876	AC	0.03
seocl234	4C	o.03		seoa3359	AC	0.03
seob3485	4C	o.03		mioa8984	AC	0.03
seob3076	4C	o.03		seob0298	AC	0.03
fcrb6747	4C	o.03		ncrb2544	AC	0.03
fcrb2040	4C	o.03		fcrb5416	AC	0.03
hfcr2789	4C	o.03		fcrb2198	AC	0.03
ncrl526	4C	o.03		miod5030	AC	0.03
ncrcl999	4C	o.03		seoa7249	AC	0.03
fcrb4 696	4C	o.03		ncrc4047	AC	0.03
ncrc8881	4C	o.03		seob8311	AC	0.03
fcrb2353	4C	o.03		ncrO97 6	AC	0.03
mioa6174	4C	o.03		mioa8548	AC	0.03
seoa9389	4C	o.03		fcr5222	AC	0.03
seoa2777	4C	o.03		seoa3910	AC	0.03
seob6558	4C	o.03		ncrcO793	AC	0.03
seoa2381	4C	o.03		mioc8694	AC	0.03
				fcrb3169	AC	0.03

'ï c't65r42-	"4C	'σ -o-ɔ"	miod2025	4C	O.03
hfcr2966	4C	0.03	ncr1352	4C	O.03
fcrc6970	4C	0.03	fcrb5296	4C	O.03
miob5 699	4C	0.03	fcrb0265	4C	O.03
fcrO94 6	4C	0.03	seoa1460	4C	O.03
ncr4140	4C	0.03	seob8099	4C	O.03
fcrb2592	4C	0.03	mioc3574	4C	O.03
mioa9060	4C	0.03	fcrb2090	4C	O.03
mioal953	4C	0.03	miob0178	AC	O.03
fcrb2325	4C	0.03	ncrc5631	AC	O.03
fcrb4781	4C	0.03	fcrb4248	AC	O.03
miocl928	4C	0.03	ncr0019	AC	O.03
seob3513	4C	0.03	mioa3620	AC	O.03
fcrb8664	4C	0.03	fcrb2472	AC	O.03
mioa3944	4C	0.03	fcrb3515	AC	O.03
seobl660	4C	0.03	mioal380	AC	O.03
ncrc2940	4C	0.03	ncrb8239	AC	O.03
ncrcO413	4C	0.03	fcr2196	AC	O.03
seob5004	4C	0.03	mioa8912	AC	O.03
mioa2818	4C	0.03	ncrbl438	AC	O.03
ncrc4633	4C	0.03	mioa6268	AC	O.03
seob3455	4C	0.03	seoa9739	AC	O.03
mioc5740	4C	0.03	seoc2246	AC	O.03
seob7981	4C	0.03	ncr6072	AC	O.03
fcrc6609	4C	0.03	miob0361	AC	O.03
ncrO194	4C	0.03	miob6373	AC	O.03
ncrc4794	4C	0.03	ncr3268	AC	O..03
fcr6150	4C	0.03	miob2067	AC	o .03
ncrb3003	4C	0.03	ncrcO856	AC	O.03
fcrb8908	4C	0.03	fcrb7321	AC	O..03
ncr3172	4C	0.03	fcrb3083	AC	o .03
fcrb5645	4C	0.03	mioblOl β	AC	o..03
hfcrO489	AC	0.03	seoa8814	AC	o .03
mioa4721	4C	0.03	hfcr44 62	AC	o .03
ncrcl885	4C	0.03	ncr4656	AC	o .04
miodl558	4C	0.03	mioal621	AC	o .04
miod6437	4C	0.03	fcr5288	AC	o .04
miob3911	AC	0.03	fcr4954	AC	o .04
ncr2861	AC	0.03	mioc2592	AC	o .04
fcrO529	AC	0.03	hfcr7968	AC	o .04
mioa8886	AC	0.03	ncrc5207	AC	o .04
ncrc4985	AC	0.03	miob9284	4C	o .04
mioc3127	AC	0.03	miod444 9	AC	o .04
ncrcO259	AC	0.03	seob4197	AC	o.04
fcrb6725	AC	0.03	seob4492	AC	o.04
ncrc9055	AC	0.03	seoa8870	AC	o.04
mioa4135	AC	0.03	fcrb6874	AC	o.04
ncr3339	AC	0.03	ncr2269	AC	o.04
ncr4452	AC	0.03	miod2635	AC	o.04
seoa0174	AC	0.03	seob0846	AC	o.OA
fcrll73	AC	0.03	fcrb3237	4C	o.04
fcr5755	AC	0.03	hfcr4444	AC	o.04
seoa4167	AC	0.03	miodl389	AC	o.04
mioc8682	AC	0.03	fcrO842	AC	o.04
fcrcO771	AC	0.03	fcrb5751	AC	o.04
seob0228	AC	0.03	fcrb8852	AC	o.04
ncrc4600	AC	o.03	ncrcl049	AC	o.04
seob8355	AC	0.03	fcrb5177	AC	o.04
fcrb6715	4C	0.03	seobll45	AC	o.04
fcrb2800	4C	0..03	fcrb9390	AC	o.04
mioc7360	4C	o..03	fcrO779	AC	o.04
mioa5326	AC	o..03	seob3699	AC	o.04
hfcrll89	AC	o .03	fcrb7036	AC	o.04
seobl093	AC	o .03	ncr7852	AC	o.04

'"fc'tb96«9-"~" ·4·c ·ⁿ ·Üï ·04·		
ncrc4226	4C	0 .04
seoa7626	4C	0 .04
ncrc2928	4C	0 .04
fcrbl834	AC	0 .04
miob3426	4C	0 .04
ncrc5758	4C	0 .04
fcr2018	4C	0 .04
seoa3489	4C	0 .04
hfcr2516	4C	0 .04
cr0682 4C		0.04
miob6595	4C	0 .04
seoa9131	4C	0 .04
ncr0547	4C	0 .04
fcr0776	4C	0 .04
fcrb4333	4C	0 .04
hfcrl304	4C	0 .04
fcr5006	4C	0 .04
fcrb4340	4C	0 .04
mioc8479	4C	0 .04
miodll08	4C	0 .04
mioa9007	4C	0 .04
seoa2041	4C	0 .04
seob3751	4C	0 .04
hfcrl202	4C	0 .04
ncrc5296	4C	0 .04
seob3734	4C	0 .04
ncr0531	4C	0 .04
ncrc8976	4C	0 .04
fcrc0559	4C	0 .04
miob3131	4C	0 .04
fcrb7584	4C	0 .04
seocll59	4C	0 .04
seoc0778	4C	0 .04
miob0939	4C	0 .04
ncr9337	4C	0 .04
fcrb4270	4C	0 .04
ncrl437	4C	0 .04
ncr9596	4C	0 .04
ncrc4875	4C	0 .04
ncr3614	4C	0 .04
seob0497	4C	0 .04
hfcr0675	4C	0 .04
miob3443	4C	0 .04
fcrbl724	4C	0 .04
seobl748	4C	0 .04
seobl420	4C	0 .04
hfcr6931	4C	0 .04
seoc5285	4C	0 .04
seob9543	4C	0 .04
fcr4832	4C	0 .04
mioa3786	4C	0 .04
mioc3618	4C	0 .04
seob6582	4C	0 .04
fcr6412	4C	0 .04
iniob9121	4C	0 .04
fcrc4 948	4C	0 .04
ncr2304	4C	0 .04
seoa3335	4C	0 .04
fcr4057	4C	0 .04
seobl746	4C	0 .04
seob4213	4C	0 .04
ncrc4247	4C	0 .04
seoa6697	4C	0 .04
seoc5627	4C	O .04
fcr0860	4C	O .04
fcrbl017	4C	O .04
fcr0061	4C	O .04
hfcr3022	4C	O .04
hfcr9290	4C	O .04
fcr0986	4C	O .04
mioa3439	4C	O .04
miod6044	4C	O .04
seob0046	4C	O .04
ncrc0704	4C	O .04
fcrb5639	4C	O .04
seoal497	4C	O .04
seobl057	4C	O .04
ncrbl456	4C	O .04
fcr7026	4C	O .04
seoa0740	4C	O .04
mioc4696	4C	O .04
fcrb4375	4C	O .04
hfcr0242	4C	O .04
mioa5586	AC	O .04
ncrb4538	4C	O .04
hfcr5383	4C	O .04
miod2412	4C	O .04
fcrb5449	4C	O .04
seobl972	AC	O .04
ncrc4000	AC	O .04
fcrb2350	4C	O .04
miod2323	4C	O .04
mioa8314	4C	O .04
mioa7299	4C	O .04
hfcr0496	4C	O .04
ncrc9331	AC	0 .04
mioal276	AC	O .04
ncr7345	AC	0 .04
hfcr2544	AC	0 .04
hfcrl314	4C	0 .04
seoa2141	AC	0 .04
fcrb9714	AC	0 .04
ncr3037	AC	0 .04
miod7440	4E	2 .44e-07
seoc2029	4E	6 .23e-07
mioc7170	4E	2 .53e-06
mioc2561	4E	3 .17e-06
mioa2072	4E	3 .26e-06
seob5523	4E	4 .23e-06
seob4419	4E	4 .27e-06
fcrc3993	4E	4 .37e-06
seoa4461	4E	5 .29e-06
seoaβ032	4E	5 .48e-06
miod5349	4E	6 .31e-06
mioc3430	4E	7 .49e-06
seoa8894	4E	1 .1e-05
fcrb4534	4E	1 .46e-05
seob2697	4E	1 .66e-05
seoa4518	4E	2 .47e-05
seoa6133	4E	2 .48e-05
miobβ562	4E	2 .52e-05
seoa8566	4E	3 .22e-05
ncr7668	4E	4 .63e-05
fcrb3578	4E	4 .7e-05
fcr2952	4E	5 .1e-05
miod5123	4E	5 .49e-05
seob4333	4E	5 .73e-05

seoa'b6-&-53	4E	5.74e-b5	fcrb8504	4E	3.99e-04
mioa3963	4E	6.04e-05	fcr5779	4E	4.02e-04
miod7421	4E	6.08e-05	miob7922	4E	4.07e-04
mioa2327	4E	6.21e-05	fcrb7830	4E	4.09e-04
seoa9373	4E	6.54e-05	fcrb4428	4E	4.19e-04
mioa2319	4E	8.18e-05	mioc8057	4E	4.39e-04
ncrb2092	4E	8.8e-05	fcrl463	4E	4.77e-04
mioal370	4E	8.87e-05	fcr2103	4E	4.84e-04
mioc8410	4E	9.18e-05	miod6845	4E	4.99e-04
seoa9482	4E	9.27e-05	ncrc5663	4E	5.0e-04
mioa3492	4E	9.61e-05	seob6844	4E	5.04e-04
fcrb7339	4E	9.87e-05	ncrc4597	4E	5.18e-04
fcrb8516	4E	9.9e-05	ncrc4757	4E	5.23e-04
fcr4477	4E	1.01e-04	seob9282	4E	5.33e-04
fcrc3739	4E	1.03e-04	seoa7530	4E	5.56e-04
fcrb0265	4E	1.2e-04	seob0248	4E	5.56e-04
seob6576	4E	1.27e-04	seoc6703	4E	5.75e-04
seob6189	4E	1.32e-04	miob9907	4E	5.82e-04
mioa5085	4E	1.33e-04	fcr2607	4E	5.84e-04
miod7414	4E	1.36e-04	ncrc8903	4E	5.88e-04
mioc2094	4E	1.38e-04	seoa4739	4E	5.91e-04
seoal427	4E	1.38e-04	fcr4831	4E	5.97e-04
seoa2585	4E	1.47e-04	mioa0595	4E	6.04e-04
fcrb2536	4E	1.53e-04	seob9145	4E	6.11e-04
seob6851	4E	1.55e-04	mioal662	4E	6.2e-04
fcrb5850	4E	1.56e-04	fcrc3750	4E	6.22e-04
miob8812	4E	1.56e-04	miod4759	4E	6.36e-04
fcrb3461	4E	1.6e-04	fcrc6826	4E	6.39e-04
seocl023	4E	1.66e-04	mioc7686	4E	6.41e-04
seob4029	4E	1.69e-04	ncrb2266	4E	6.45e-04
seoa0536	4E	1.71e-04	ncrcl049	4E	6.5e-04
miod5651	4E	1.77e-04	ncre3453	4E	6.5e-04
seoa2S70	4E	1.77e-04	fcr2573	4E	6.62e-04
seob5748	4E	1.79e-04	mioa2537	4E	6.62e-04
miod5505	4E	1.89e-04	fcrc3009	4E	6.69e-04
seob6751	4E	2.02e-04	mioa6418	4E	7.09e-04
seoc2264	4E	2.1e-04	mioc0950	4E	7.19e-04
fcrb2554	4E	2.2e-04	miodl925	4E	7.23e-04
fcrcl381	4E	2.28e-04	mioc5532	4E	7.27e-04
miob0167	4E	2.32e-04	mioc4089	4E	7.46e-04
mioc4022	4E	2.34e-04	mioc7362	4E	7.52e-04
seob0065	4E	2.35e-04	mioc7764	4E	7.57e-04
fcrc5937	4E	2.36e-04	seob9960	4E	7.63e-04
seoc0999	4E	2.44e-04	seoa8388	4E	7.64e-04
fcrc0554	4E	2.48e-04	fcrc6976	4E	7.65e-04
seocl203	4E	2.49e-04	seob3303	4E	7.67e-04
hfcrl073	4E	2.54e-04	ncr0853	4E	7.96e-04
seob4191	4E	2.69e-04	fcrbl496	4E	8.19e-04
mioc2726	4E	2.7e-04	seoa8979	4E	8.23e-04
miob8 694	4E	2.87e-04	ncrc2080	4E	8.53e-04
mioc6260	4E	2.92e-04	mioa5355	4E	8.58e-04
seoa4053	4E	3.03e-04	ncr8041	4E	8.61e-04
fcrc0112	4E	3.06e-04	seob2994	4E	8.67e-04
ncr0153	4E	3.07e-04	fcrb8 668	4E	8.75e-04
ncrl631	4E	3.07e-04	ncrc9784	4E	8.77e-04
seoa4366	4E	3.08e-04	fcrc7102	4E	8.87e-04
seoc6169	4E	3.11e-04	mioa6731	4E	8.9e-04
mioal585	4E	3.13e-04	ncr5568	4E	9.0e-04
seoa2949	4E	3.29e-04	mioc4667	4E	9.01e-04
fcrc0487	4E	3.31e-04	ncr0808	4E	9.12e-04
mioa7317	4E	3.37e-04	hfcr3019	4E	9.19e-04
seob5743	4E	3.48e-04	fcrc3048	4E	9.26e-04
seob7584	4E	3.63e-04	fcrb9454	4E	9.3e-04
ncrc0342	4E	3.76e-04	miod5369	4E	9.71e-04

se"ocl '9W ... 4E ... 9:SIe-04			ncr2905	4E	1.815247e-03
hfcr6486	4E	9.83e-04	seob6506	4E	1.826439e-03
ncrb5595	4E	1.013841e-03	ncrc5054	4E	1.860924e-03
fcrb7240	4E	1.015969e-03	seob6525	4E	1.861275e-03
fcrb2933	4E	1.016356e-03	fcrb8161	4E	1.885852e-03
hfcr5381	4E	1.016874e-03	mioal520	4E	1.887743e-03
miodl236	4E	1.028284e-03	ncr4009	4E	1.89041e-03
seob6446	4E	1.030592e-03	fcrb8740	4E	1.892065e-03
miob7105	4E	1.073216e-03	mioc8423	4E	1.916815e-03
fcrc7388	4E	1.081745e-03	ncrc9729	4E	1.919544e-03
miob3982	4E	1.105438e-03	fcrb2871	4E	1.964974e-03
seoa0740	4E	1.112372e-03	miod0592	4E	1.985622e-03
fcrbl855	4E	1.142061e-03	ncrc0150	4E	1.985831e-03
fcrb9269	4E	1.150659e-03	miod5894	4E	2.014527e-03
mioa3395	4E	1.154329e-03	miod0340	4E	2.021229e-03
seob8368	4E	1.154981e-03	seob4560	4E	2.021887e-03
seob0122	4E	1.171391e-03	fcrb8080	4E	2.025786e-03
mioa0535	4E	1.173792e-03	mioc0824	4E	2.034483e-03
fcrbl539	4E	1.177578e-03	ncrb8330	4E	2.048755e-03
seocl593	4E	1.178329e-03	fcrb5675	4E	2.051294e-03
miob9336	4E	1.178419e-03	mioa8899	4E	2.051294e-03
seob3191	4E	1.178567e-03	fcrb9720	4E	2.057033e-03
ncrc0090	4E	1.185916e-03	miocll07	4E	2.070013e-03
miod6238	4E	1.278208e-03	miob9163	4E	2.097664e-03
miodl942	4E	1.305311e-03	miob5432	4E	2.108077e-03
ncr4539	4E	1.309997e-03	fcrbl733	4E	2.120875e-03
mioa0909	4E	1.312146e-03	fcrb9843	4E	2.120966e-03
seoal844	4E	1.345317e-03	fcrc6916	4E	2.121527e-03
xmioc2880	4E	1.356947e-03	ncrO238	4E	2.1386e-03
seob6368	4E	1.361315e-03	mioa3598	4E	2.13862e-03
mioc2348	4E	1.386736e-03	mioc7895	4E	2.143605e-03
fcrl756	4E	1.392986e-03	seob6670	4E	2.155534e-03
miod6038	4E	1.395436e-03	seob8501	4E	2.166556e-03
miodOO δO	4E	1.423952e-03	miod2525	4E	2.174809e-03
miob3348	4E	1.428182e-03	fcrb2624	4E	2.174826e-03
miodl195	4E	1.431152e-03	fcrb6187	4E	2.177878e-03
ncr7753	4E	1.444958e-03	seoa0115	4E	2.17824e-03
mioc6987	4E	1.45158e-03	seocl906	4E	2.1992e-03
seoa3516	4E	1.46015e-03	mioc6312	4E	2.199817e-03
ncr0025	4E	1.469905e-03	fcr3121	4E	2.234303e-03
fcr3101	4E	1.487316e-03	seoclll8	4E	2.258564e-03
ncr7595	4E	1.511845e-03	fcr7419	4E	2.260166e-03
fcr4128	4E	1.53383e-03	seob7432	4E	2.272415e-03
ncrc5162	4E	1.553082e-03	fcrc0695	4E	2.279562e-03
ncr5168	4E	1.55656e-03	seoal065	4E	2.312579e-03
fcrb8187	4E	1.573331e-03	fcrc βolβ	4E	2.3165e-03
miodl 811	4E	1.590472e-03	miobl326	4E	2.329343e-03
seoa9740	4E	1.598061e-03	miob4475	4E	2.330183e-03
mioa3080	4E	1.603678e-03	fcrb3134	4E	2.402582e-03
mioc0052	4E	1.624699e-03	ncrb5254	4E	2.446454e-03
miob9209	4E	1.634228e-03	mioc6114	4E	2.46067e-03
ncrc5569	4E	1.637974e-03	fcrc5142	4E	2.464685e-03
mioc6075	4E	1.640004e-03	seoa3670	4E	2.543649e-03
seob0376	4E	1.666731e-03	seoa8232	4E	2.578028e-03
seoa4305	4E	1.678116e-03	ncrcl578	4E	2.579378e-03
mioal015	4E	1.68644e-03	miod4332	4E	2.601957e-03
seob0304	4E	1.693307e-03	ncrc5061	4E	2.618499e-03
fcrc2090	4E	1.719751e-03	seocl402	4E	2.660096e-03
fcrb3165	4E	1.760242e-03	mioc8434	4E	2.661058e-03
seoal598	4E	1.770719e-03	seob7465	4E	2.711845e-03
fcrc2099	4E	1.790284e-03	fcrb4409	4E	2.722505e-03
seobl766	4E	1.794891e-03	seoc0276	4E	2.725532e-03
fcrc5516	4E	1.799844e-03	mioal660	4E	2.749542e-03
fcrbl420	4E	1.801622e-03	seob3307	4E	2.811695e-03

ffii○c3§"62"	4E	I•· ·2·.·8·2 $Ttf7e-03	seoc3515	4E	4.159057e-03
seoa9814	4E	2.836239e-03	seoa8844	4E	4.195788e-03
seob9946	4E	2.84126e-03	ncrb7292	4E	4.220365e-03
seob4545	4E	2.842281e-03	fcrb9649	4E	4.270145e-03
mioc7744	4E	2.845792e-03	seoc2191	4E	4.272909e-03
fcrb4391	4E	2.852331e-03	mioc3716	4E	4.281847e-03
fcr0224	4E	2.870823e-03	seoa9711	4E	4.329889e-03
seoa7478	4E	2.876929e-03	fcrb8467	4E	4.415815e-03
miob8146	4E	2.888517e-03	mioc0347	4E	4.417094e-03
mioa7140	4E	2.898369e-03	seoa6573	4E	4.452642e-03
ncrc6359	4E	2.898846e-03	seob0168	4E	4.459519e-03
seoc3854	4E	2.908161e-03	fcrc0959	4E	4.530274e-03
ncrc3464	4E	2.965232e-03	fcrc6335	4E	4.58749e-03
mioa0702	4E	2.977964e-03	mioal354	4E	4.601629e-03
seob9649	4E	2.997767e-03	fcrb2318	4E	4.630688e-03
seob2221	4E	3.044324e-03	miod4 686	4E	4.657868e-03
ncrc5079	4E	3.050155e-03	ncrc5150	4E	4.691321e-03
fcrb9481	4E	3.074875e-03	fcrb7931	4E	4.703478e-03
seoa6304	4E	3.095502e-03	seoa7129	4E	4.719984e-03
ncrb0054	4E	3.127244e-03	seob5562	4E	4.746427e-03
seoa3533	4E	3.13784e-03	hfcr5498	4E	4.758155e-03
mioa2185	4E	3.147097e-03	mioa2691	4E	4.758155e-03
mioa0407	4E	3.167049e-03	ncr3369	4E	4.770221e-03
fcrb7 693	4E	3.203691e-03	mioa6739	4E	4.778158e-03
fcrbl552	4E	3.209013e-03	seoa4395	4E	4.779169e-03
ncr0438	4E	3.245826e-03	mioa0826	4E	4.884238e-03
ncrb6530	4E	3.252247e-03	mioa6621	4E	4.904983e-03
mioa0187	4E	3.279663e-03	fcrb5438	4E	4.92339e-03
fcrc3211	4E	3.326366e-03	seoa3847	4E	4.942903e-03
fcr5075	4E	3.353508e-03	mioa9831	4E	4.946737e-03
ncrb0145	4E	3.359507e-03	fcrc6174	4E	4.953862e-03
fcrb3017	4E	3.376066e-03	fcrb3192	4E	4.985296e-03
ncr8866	4E	3.437719e-03	ncr3684	4E	5.017654e-03
mioc7441	4E	3.437924e-03	hfcr2287	4E	5.054567e-03
ncrc7040	4E	3.438068e-03	seobl318	4E	5.055898e-03
seoc7104	4E	3.438068e-03	fcrc2576	4E	5.063792e-03
fcrc6888	4E	3.449333e-03	fcrc0430	4E	5.084925e-03
miob9065	4E	3.456747e-03	miob8583	4E	5.097523e-03
fcrb2307	4E	3.463155e-03	ncrc5672	4E	5.11611e-03
miob7290	4E	3.492188e-03	ncr2862	4E	5.163569e-03
ncr2013	4E	3.51941e-03	miob6364	4E	5.172374e-03
seob4972	4E	3.531512e-03	ncrc5500	4E	5.175143e-03
mioc3726	4E	3.550472e-03	seob3204	4E	5.176722e-03
seob2188	4E	3.584274e-03	mioa8946	4E	5.185969e-03
seob2797	4E	3.6022e-03	ncrc5039	4E	5.197151e-03
seoal749	4E	3.637644e-03	miod2639	4E	5.218734e-03
seoa6661	4E	3.644681e-03	fcrc4360	4E	5.250167e-03
ncr0478	4E	3.666381e-03	miod3592	4E	5.253602e-03
fcrb2249	4E	3.695741e-03	ncrbl398	4E	5.295501e-03
ncr0451	4E	3.707725e-03	miod3854	4E	5.307923e-03
fcr6577	4E	3.735652e-03	miod3254	4E	5.326719e-03
fcr6018	4E	3.762242e-03	mioc8619	4E	5.353299e-03
ncrc4808	4E	3.775334e-03	ncrc9758	4E	5.427537e-03
hfcr0370	4E	3.8121e-03	fcrb δ110	4E	5.478029e-03
seobl187	4E	3.817075e-03	fcr0990	4E	5.490991e-03
fcr3155	4E	3.832262e-03	fcrbl684	4E	5.495549e-03
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mioc5643	4E	3.926872e-03	fcrc6854	4E	5.540234e-03
mioc7084	4E	3.93591e-03	ncrdl382	4E	5.540547e-03
seoal173	4E	3.950326e-03	fcrc2082	4E	5.550695e-03
ncrb4025	4E	4.052138e-03	0ioc3296	4E	5.567015e-03
miob4956	4E	4.05244e-03	fcrb7852	4E	5.667225e-03
miod6018	4E	4.139368e-03	fcr0253	4E	5.72015e-03
mioc0741	4E	4.154883e-03	mioa8647	4E	5.768458e-03

fcrb5...	4E	5.816819e-03	hfcr0517	4E	7.704251e-03
seoc3588	4E	5.826485e-03	fcrb7944	4E	7.767483e-03
mioc5664	4E	5.835444e-03	fcrb9655	4E	7.792172e-03
fcrb9147	4E	5.861796e-03	ncrc4226	4E	7.824984e-03
ncrc4654	4E	5.866006e-03	seob6177	4E	7.843092e-03
fcrb5267	4E	5.942373e-03	ncrb1670	4E	7.921435e-03
fcrb1687	4E	5.960627e-03	mioc7998	4E	7.939586e-03
fcrc0094	4E	5.96467e-03	seob2775	4E	7.953567e-03
fcr6390	4E	6.000719e-03	miob2227	4E	8.045772e-03
seoa0470	4E	6.100317e-03	fcrb7113	4E	8.05715e-03
ncr3827	4E	6.109319e-03	fcrc0295	4E	8.130412e-03
hfcr1265	4E	6.161536e-03	miod2665	4E	8.152135e-03
fcrb7529	4E	6.171216e-03	fcrc3358	4E	8.156756e-03
seob3520	4E	6.215767e-03	fcr4965	4E	8.164022e-03
ncrb1337	4E	6.21911e-03	mioc6997	4E	8.185087e-03
ncrb1515	4E	6.341156e-03	miob1493	4E	8.197903e-03
miod4142	4E	6.383134e-03	seoc2220	4E	8.240295e-03
miob4593	4E	6.402894e-03	ncrb3077	4E	8.265993e-03
ncrc6712	4E	6.41394e-03	ncr0912	4E	8.275646e-03
ncrc0139	4E	6.437649e-03	seob0466	4E	8.285506e-03
mioa5836	4E	6.490511e-03	seoc2824	4E	8.3183e-03
mioc0301	4E	6.490511e-03	hfcr5737	4E	8.332211e-03
ncr5719	4E	6.490511e-03	seoa4070	4E	8.351138e-03
seoa5473	4E	6.490511e-03	ncr0634	4E	8.421583e-03
seod2243	4E	6.490511e-03	seob8065	4E	8.459463e-03
seob0703	4E	6.50097e-03	ncrc6871	4E	8.532381e-03
seoa5911	4E	6.597064e-03	ncrc1502	4E	8.575665e-03
mioc2166	4E	6.609859e-03	fcrc2997	4E	8.587588e-03
ncr4545	4E	6.618737e-03	fcr0770	4E	8.634112e-03
seoa4333	4E	6.629988e-03	mioa3856	4E	8.663706e-03
mioa1303	4E	6.633139e-03	mioa9891	4E	8.689171e-03
fcrb2292	4E	6.653984e-03	fcrb1835	4E	8.733177e-03
seob5500	4E	6.672454e-03	ncrc7016	4E	8.733177e-03
ncr4384	4E	6.700762e-03	seob6836	4E	8.733177e-03
ncr7631	4E	6.713476e-03	miob1506	4E	8.830271e-03
seob9552	4E	6.762169e-03	fcrc1834	4E	8.876728e-03
fcrc1607	4E	6.799098e-03	miod1331	4E	8.912821e-03
hfcr1760	4E	6.835569e-03	fcrc4054	4E	8.989376e-03
fcrc3415	4E	6.861942e-03	mioa2413	4E	9.000025e-03
miob5412	4E	6.89987e-03	fcrb2299	4E	9.0502e-03
seob9772	4E	6.956817e-03	seob3415	4E	9.05062e-03
ncrc2495	4E	6.966429e-03	mioa2652	4E	9.114417e-03
ncr2486	4E	6.982956e-03	miob34 61	4E	9.117224e-03
mioa1337	4E	7.012816e-03	fcr0707	4E	9.142522e-03
ncrc6813	4E	7.043646e-03	miod1574	4E	9.196145e-03
hfcr1914	4E	7.057729e-03	seoa5933	4E	9.204501e-03
mioa1427	4E	7.073426e-03	seoa2391	4E	9.263207e-03
ncr1351	4E	7.095309e-03	fcrb6191	4E	9.290334e-03
seoa6923	4E	7.09741e-03	ncrc0l0l	4E	9.315893e-03
seob7474	4E	7.109226e-03	ncrc6953	4E	9.345199e-03
mioa0249	4E	7.184179e-03	seoc0098	4E	9.429093e-03
seoa9935	4E	7.197022e-03	seob5032	4E	9.43118e-03
miob2836	4E	7.210691e-03	seoc1234	4E	9.440983e-03
mioa6093	4E	7.268139e-03	mioa4548	4E	9.611891e-03
ncrc6687	4E	7.304834e-03	fcrc5846	4E	9.622113e-03
ncre0769	4E	7.328795e-03	seob4140	4E	9.654697e-03
miob4058	4E	7.329008e-03	fcrb5537	4E	9.69729e-03
fcrb8542	4E	7.350932e-03	ncr4113	4E	9.724485e-03
fcr6044	4E	7.452917e-03	mioa6035	4E	9.789009e-03
seob6560	4E	7.500236e-03	fcrb34 66	4E	9.829055e-03
mioa4009	4E	7.528646e-03	seob6492	4E	9.84478e-03
ncrc5972	4E	7.541349e-03	ncrc7038	4E	9.905278e-03
miob4221	4E	7.572537e-03	miob8214	4E	0.01
ncr7099	4E	7.606402e-03	mioc4366	4E	0.01

""fcfc139"4	4E	0 ."D1"	mioc4247	4E	0.01
fcrc3283	4E	0.01	seoc2670	4E	0.01
fcrc5154	4E	0.01	mioa5691	4E	0.01
fcrO955	4E	0.01	ncr4202	4E	0.01
fcrc3240	4E	0.01	fcrcl216	4E	0.01
fcrbl787	4E	0.01	seob3189	4E	0.01
mioa2580	4E	0.01	miob47 43	4E	0.01
fcrb4988	4E	0.01	seob4732	4E	0.01
ncrb0033	4E	0.01	fcrbl741	4E	0.01
ncrd4619	4E	0.01	seoc3603	4E	0.01
ncrc3624	4E	0.01	miob0496	4E	0.01
miob4037	4E	0.01	fcrb4832	4E	0.01
mioa5692	4E	0.01	seob3731	4E	0.01
ncr3402	4E	0.01	miod4407	4E	0.01
seob4036	4E	0.01	mioc2541	4E	0.01
fcrl068	4E	0.01	fcr2102	4E	0.01
mioa6585	4E	0.01	seoa4460	4E	0.01
mioc3618	4E	0.01	ncrb5244	4E	0.01
fcrb6785	4E	0.01	mioc0560	4E	0.01
mioa5461	4E	0.01	seob9645	4E	0.01
ncrb8451	4E	0.01	ncrb5197	4E	0.01
seoa7266	4E	0.01	ncrc9727	4E	0.01
fcrb4109	4E	0.01	seoa2639	4E	0.01
fcrb2818	4E	0.01	mioal657	4E	0.01
fcrc2948	4E	0.01	mioc3523	4E	0.01
miod7457	4E	0.01	seoc3116	4E	0.01
seob3887	4E	0.01	ncr6142	4E	0.01
hfcr9397	4E	0.01	ncrc5592	4E	0.01
seob6467	4E	0.01	seoa7094	4E	0.01
fcr2598	4E	0.01	seoa8902	4E	0.01
mioa6135	4E	0.01	mioa4014	4E	0.01
mioc4009	4E	0.01	ncrc4296	4E	0.01
seoc2336	4E	0.01	fcrc4948	4E	0.01
fcrb3135	4E	0.01	fcr0272	4E	0.01
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seoc3876	4E	0.01	ncrc3453	4E	0.01
fcrc6041	4E	0.01	miob37 63	4E	0.01
mioc7553	4E	0.01	miob2492	4E	0.01
ncr0954	4E	0.01	miod6041	4E	0.01
seoa5456	4E	0.01	fcr5176	4E	0.01
mioa9033	4E	0.01	fcrb5536	4E	0.01
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fcrb7588	4E	0.01	mioc7260	4E	0.01
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seob8693	4E	0.01	mioa2421	4E	0.01
fcrc0396	4E	0.01	ncrb6087	4E	0.01
seoal332	4E	0.01	mioc6358	4E	0.01
miob9393	4E	0.01	ncrc9517	4E	0.01
fcrcll δ1	4E	0.01	mioa8864	4E	0.01
mioc3206	4E	0.01	fcrb3886	4E	0.01
mioa6721	4E	0.01	seoa9729	4E	0.01
ncrc8841	4E	0.01	ncrc6617	4E	0.01
ncrb6833	4E	0.01	seoc3463	4E	0.01
fcrbl202	4E	0.01	ncrl428	4E	0.01
mioa5773	4E	0.01	fcrcl758	4E	0.01
seob9882	4E	0.01	seoa2957	4E	0.01
fcrc0379	4E	0.01	miob5708	4E	0.01
mioc3958	4E	0.01	miod34 94	4E	0.01
ncrc3116	4E	0.01	ncr7082	4E	0.01

Sebas23s	4 E	σ tri	miod0625	4 E	0.01
fcrb2813	4 E	0.01	ncr001 β	4 E	0.01
mioc6847	4 E	0.01	ncrc6407	4 E	0.01
fcr0280	4 E	0.01	ncrd7 976	4 E	0.01
fcrb8901	4 E	0.01	seob2149	4 E	0.01
mioa5231	4 E	0.01	seob4039	4 E	0.01
miob3477	4 E	0.01	seoc0698	4 E	0.01
ncr0045	4 E	0.01	ncrb3341	4 E	0.01
seob4213	4 E	0.01	seob1322	4 E	0.01
fcrc4658	4 E	0.01	ncr9919	4 E	0.01
seoc7281	4 E	0.01	fcrb2996	4 E	0.01
seob2938	4 E	0.01	seob8301	4 E	0.01
fcrc1745	4 E	0.01	ncr8827	4 E	0.01
fcr1185	4 E	0.01	seob9480	4 E	0.01
fcr5755	4 E	0.01	miod6947	4 E	0.01
mioc7807	4 E	0.01	fcrb2094	4 E	0.01
ncrb8790	4 E	0.01	fcrc7056	4 E	0.01
miob2375	4 E	0.01	fcr1305	4 E	0.01
mioa0891	4 E	0.01	fcrc2969	4 E	0.01
mioc7370	4 E	0.01	ncrc6127	4 E	0.01
seoa9344	4 E	0.01	fcr5509	4 E	0.01
seoa5429	4 E	0.01	seob3419	4 E	0.01
hfcr6640	4 E	0.01	ncrc2859	4 E	0.01
fcrb2784	4 E	0.01	mioa0152	4 E	0.01
ncr8290	4 E	0.01	seoc0866	4 E	0.01
mioc4839	4 E	0.01	fcrc3229	4 E	0.01
mioa9258	4 E	0.01	hfcr4423	4 E	0.01
mioc7509	4 E	0.01	ncr4126	4 E	0.01
miob3411	4 E	0.01	miob7 607	4 E	0.01
mioa3646	4 E	0.01	miod0 686	4 E	0.01
seoa4107	4 E	0.01	fcrb2596	4 E	0.01
seoa0931	4 E	0.01	miob1789	4 E	0.01
ncrc5813	4 E	0.01	ncr6141	4 E	0.01
seoa3737	4 E	0.01	mioa9935	4 E	0.01
seoa6658	4 E	0.01	seoa1979	4 E	0.01
hfcr1419	4 E	0.01	fcrc5671	4 E	0.01
fcrb8465	4 E	0.01	seob6229	4 E	0.01
seoc2253	4 E	0.01	ncrb1956	4 E	0.01
mioc7561	4 E	0.01	hfcr3011	4 E	0.01
ncrc6861	4 E	0.01	fcrb4294	4 E	0.01
fcrb1917	4 E	0.01	seoc8175	4 E	0.01
seob7941	4 E	0.01	mioa3799	4 E	0.01
miob7531	4 E	0.01	mioa6999	4 E	0.01
seob1783	4 E	0.01	miob0207	4 E	0.01
seoa4324	4 E	0.01	seob5490	4 E	0.01
ncr0335	4 E	0.01	miod0167	4 E	0.01
seoc3870	4 E	0.01	seob2081	4 E	0.01
raiod0963	4 E	0.01	mioc1440	4 E	0.01
fcrb7833	4 E	0.01	ncrc2273	4 E	0.01
ncrc0803	4 E	0.01	ncrc5608	4 E	0.01
fcr4927	4 E	0.01	fcrb8196	4 E	0.01
seob3464	4 E	0.01	hfcr6243	4 E	0.01
mioa0246	4 E	0.01	ncr3219	4 E	0.01
mioa6091	4 E	0.01	ncre5960	4 E	0.01
mioc4641	4 E	0.01	fcrb7751	4 E	0.01
seoc1278	4 E	0.01	seoc4625	4 E	0.01
seob4539	4 E	0.01	fcr4795	4 E	0.01
mioc8379	4 E	0.01	mioa7169	4 E	0.01
fcrc0839	4 E	0.01	fcrb1582	4 E	0.01
fcrb7505	4 E	0.01	fcrc6106	4 E	0.01
fcrb3217	4 E	0.01	mioc8474	4 E	0.01
mioa2722	4 E	0.01	seob4570	4 E	0.01
mioa6034	4 E	0.01	fcr7705	4 E	0.01
mioc0978	4 E	0.01	ncr7876	4 E	0.02

310

"seba29"β₂	4E	0.02		ncrc6981	4E	0.02
fcrb2926	4E	0.02		fcr0027	4E	0.02
fcr6616	4E	0.02		ncr2293	4E	0.02
miob3307	4E	0.02		ncrc6047	4E	0.02
fcrb2658	4E	0.02		seoc0593	4E	0.02
ncrc5653	4E	0.02		seob7622	4E	0.02
mioc2546	4E	0.02		seob9818	4E	0.02
seoa7935	4E	0.02		seoa3752	4E	0.02
seoc7546	4E	0.02		seoc5780	4E	0.02
hfcr2505	4E	0.02		ncrc9387	4E	0.02
seoa0221	4E	0.02		ncr2717	4E	0.02
seoc4052	4E	0.02		fcr2530	4E	0.02
seob0763	4E	0.02		fcr3269	4E	0.02
mioa1055	4E	0.02		fcrb8719	4E	0.02
seob4192	4E	0.02		hfcr1774	4E	0.02
miob4570	4E	0.02		fcrb1528	4E	0.02
fcrc0529	4E	0.02		ncre5807	4E	0.02
miod2128	4E	0.02		seob9730	4E	0.02
ncr4416	4E	0.02		mioc9919	4E	0.02
miod0971	4E	0.02		seoc4505	4E	0.02
ncrb8063	4E	0.02		hfcr0256	4E	0.02
miob7109	4E	0.02		miob8609	4E	0.02
seob1834	4E	0.02		seoa4586	4E	0.02
fcr7403	4E	0.02		bfcs0043	4E	0.02
mioa8858	4E	0.02		ncrc1402	4E	0.02
seob0831	4E	0.02		ncr27 92	4E	0.02
seoc1264	4E	0.02		seoa4634	4E	0.02
fcr2940	4E	0.02		mioa3940	4E	0.02
seob9067	4E	0.02		fcrb5720	4E	0.02
fcrb7118	4E	0.02		fcrc0677	4E	0.02
miod0441	4E	0.02		mioa6147	4E	0.02
seoa6867	4E	0.02		miob7 611	4E	0.02
fcrb2913	4E	0.02		ncrb3284	4E	0.02
fcrb3201	4E	0.02		seoa4158	4E	0.02
fcrb9578	4E	0.02		seoa4670	4E	0.02
seoa5214	4E	0.02		miob9855	4E	0.02
seoc3426	4E	0.02		mioc2799	4E	0.02
ncrd4701	4E	0.02		mioa8548	4E	0.02
miob3396	4E	0.02		ncrc4586	4E	0.02
fcr3043	4E	0.02		ncrc9117	4E	0.02
fcrb2591	4E	0.02		seob5624	4E	0.02
fcrc4390	4E	0.02		ncrc1751	4E	0.02
hfcr3404	4E	0.02		fcrc0651	4E	0.02
ncrc4001	4E	0.02		ncrc1687	4E	0.02
ncrc0292	4E	0.02		hfcr1856	4E	0.02
ncrc3276	4E	0.02		fcrb5393	4E	0.02
miob4975	4E	0.02		ncr9108	4E	0.02
mioc0214	4E	0.02		fcr4634	4E	0.02
miod4857	4E	0.02		miod0053	4E	0.02
seob6680	4E	0.02		fcr2587	4E	0.02
miob9533	4E	0.02		miob3330	4E	0.02
fcrb2690	4E	0.02		mioc2019	4E	0.02
seoa3628	4E	0.02		fcrc5721	4E	0.02
fcr2859	4E	0.02		hfcr2295	4E	0.02
seoc6266	4E	0.02		ncr2408	4E	0.02
mioc5226	4E	0.02		hfcr3180	4E	0.02
mioc5307	4E	0.02		ncr8975	4E	0.02
fcrb6990	4E	0.02		ncrb27 98	4E	0.02
fcrb3519	4E	0.02		fcr3620	4E	0.02
seoc2030	4E	0.02		seoc0416	4E	0.02
miob8274	4E	0.02		seoa8912	4E	0.02
seoc4380	4E	0.02		fcrc7228	4E	0.02
fcr5618	4E	0.02		miob6610	4E	0.02
seoa3555	4E	0.02		seob4726	4E	0.02

seob825ST	4E	0.02	ncrc9633	4E	0.03
seob6096	4E	0.02	hfcr5797	4E	0.03
fcrb4365	4E	0.02	seoal789	4E	0.03
fcrc2670	4E	0.02	miob3531	4E	0.03
seoa8867	4E	0.02	miod7270	4E	0.03
ncrc1231	4E	0.02	fcrb6102	4E	0.03
ncrc2888	4E	0.02	miob7223	4E	0.03
seobl947	4E	0.02	fcrb5416	4E	0.03
mioa7088	4E	0.02	ncrd3839	4E	0.03
mioc5695	4E	0.02	seoa7249	4E	0.03
ncr3052	4E	0.02	fcr5222	4E	0.03
ncrc1537	4E	0.02	fcrb8910	4E	0.03
seob3009	4E	0.02	seoa5447	4E	0.03
mioa5531	4E	0.02	fcrc6970	4E	0.03
mioa6840	4E	0.02	ncr5374	4E	0.03
ncrc9436	4E	0.02	seob6030	4E	0.03
miob4 876	4E	0.02	miod74 61	4E	0.03
ncr0491	4E	0.02	fcr0860	4E	0.03
fcrl724	4E	0.02	fcr0946	4E	0.03
fcr7042	4E	0.02	mioc3959	4E	0.03
mioa4738	4E	0.02	ncr4140	4E	0.03
ncr5557	4E	0.02	mioc3994	4E	0.03
fcrc0591	4E	0.02	fcr5369	4E	0.03
fcrb7951	4E	0.03	seoa5528	4E	0.03
ncr3968	4E	0.03	mioa4704	4E	0.03
fcrcl019	4E	0.03	fcrb8664	4E	0.03
hfcr5971	4E	0.03	inioa3944	4E	0.03
fcrb6747	4E	0.03	ncrc4620	4E	0.03
fcrb2040	4E	0.03	mioa2818	4E	0.03
seoa2679	4E	0.03	ncrc4 633	4E	0.03
fcr0553	4E	0.03	ncrb0303	4E	0.03
fcrb2353	4E	0.03	ncrc6439	4E	0.03
seob4079	4E	0.03	fcr4306	4E	0.03
ncr3237	4E	0.03	seoa5554	4E	0.03
hfcr0734	4E	0.03	fcr0843	4E	0.03
hfcr3500	4E	0.03	ncrb2151	4E	0.03
seoa9060	4E	0.03	mioa0497	4E	0.03
seob3064	4E	0.03	fcrb4340	4E	0.03
seobl889	4E	0.03	fcrb β111	4E	0.03
seoc0616	4E	0.03	fcrc6108	4E	0.03
fcrb8949	4E	0.03	mioa9492	4E	0.03
fcr0206	4E	0.03	miob6952	4E	0.03
ncrc0439	4E	0.03	mioc3648	4E	0.03
mioc6902	4E	0.03	ncrbl719	4E	0.03
seob7946	4E	0.03	ncrc0608	4E	0.03
seoc3980	4E	0.03	ncre0516	4E	0.03
fcrb5296	4E	0.03	seob6584	4E	0.03
fcrc δ010	4E	0.03	seob7668	4E	0.03
ncr2866	4E	0.03	seoc3443	4E	0.03
ncr3380	4E	0.03	seod0773	4E	0.03
ncrc2670	4E	0.03	seob3170	4E	0.03
seob3404	4E	0.03	seoa3544	4E	0.03
seoa9855	4E	0.03	fcrb5645	4E	0.03
ncr3690	4E	0.03	fcrb4016	4E	0.03
seoc4187	4E	0.03	seob0885	4E	0.03
miob7850	4E	0.03	seob5558	4E	0.03
ncrb4 441	4E	0.03	ncr9664	4E	0.03
ncrb8 649	4E	0.03	fcr0529	4E	0.03
mioa3361	4E	0.03	seob0650	4E	0.03
fcrb7616	4E	0.03	seodl506	4E	0.03
ncr8995	4E	0.03	miob3354	4E	0.03
fcrb4599	4E	0.03	mioa2447	4E	0.03
seob8082	4E	0.03	fcrb6725	4E	0.03
seoa2978	4E	0.03	ncr5939	4E	0.03

~hdr21T5	4E	0.03	ncr4550	4E	0.04
seoa7369	4E	0.03	seoa2041	4E	0.04
miod6048	4E	0.03	ncr0531	4E	0.04
seob0344	4E	0.03	miod6213	4E	0.04
seoa6598	4E	0.03	seob3455	4E	0.04
mioc4504	4E	0.03	ncr9337	4E	0.04
fcrb4479	4E	0.03	fcrb7490	4E	0.04
seoa8642	4E	0.03	fcrc0039	4E	0.04
mioa1380	4E	0.03	fcrc0676	4E	0.04
mioa6583	4E	0.03	hfcr0723	4E	0.04
fcr2196	4E	0.03	mioa1079	4E	0.04
mioa8912	4E	0.03	miob4793	4E	0.04
ncr5065	4E	0.03	miob7550	4E	0.04
seoc2246	4E	0.03	mioc5679	4E	0.04
ncr6072	4E	0.03	ncrc6382	4E	0.04
fcrc4876	4E	0.03	seoa7509	4E	0.04
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ncr3268	4E	0.03	seoc5285	4E	0.04
seob8300	4E	0.03	mioa6556	4E	0.04
fcr6708	4E	0.03	mioc4086	4E	0.04
seoa9042	4E	0.03	fcrb8908	4E	0.04
seoa7923	4E	0.03	seob6582	4E	0.04
ncr4656	4E	0.04	ncrc9039	4E	0.04
ncre2208	4E	0.04	ncr0132	4E	0.04
fcr3338	4E	0.04	mioc6341	4E	0.04
fcrb5422	4E	0.04	fcrb4333	4E	0.04
fcrb7761	4E	0.04	seoc2256	4E	0.04
hfcr9140	4E	0.04	fcrβ181	4E	0.04
mioa4810	4E	0.04	miod4370	4E	0.04
mioa6471	4E	0.04	miob2668	4E	0.04
mioc5646	4E	0.04	seob3394	4E	0.04
ncrb5145	4E	0.04	ncrb2992	4E	0.04
ncrc5845	4E	0.04	seob1009	4E	0.04
seoa5455	4E	0.04	ncrb8539	4E	0.04
seob0288	4E	0.04	hfcr4470	4E	0.04
seob6630	4E	0.04	miod6044	4E	0.04
miob3018	4E	0.04	seob0046	4E	0.04
seoa4055	4E	0.04	miod6731	4E	0.04
miob9284	4E	0.04	fcrb2762	4E	0.04
seob2169	4E	0.04	ncr2591	4E	0.04
miob5608	4E	0.04	fcrb5639	4E	0.04
miod2635	4E	0.04	hfcr1055	4E	0.04
fcr4984	4E	0.04	seoc0742	4E	0.04
miod4564	4E	0.04	mioc4696	4E	0.04
ncr4538	4E	0.04	fcr7518	4E	0.04
ncrc4798	4E	0.04	fcrb7880	4E	0.04
ncre2942	4E	0.04	ncrb4538	4E	0.04
fcrb5751	4E	0.04	seob1972	4E	0.04
fcrb5177	4E	0.04	ncrc4000	4E	0.04
seob5465	4E	0.04	seoa2795	4E	0.04
miob2743	4E	0.04	miod4546	4E	0.04
miob5752	4E	0.04	miob7913	4E	0.04
seoa5258	4E	0.04	fcr3053	4E	0.04
seoa3761	4E	0.04	seob6198	4E	0.04
mioc8206	4E	0.04	miod1792	4E	0.04
miob3426	4E	0.04	fcrb2015	4E	0.04
seoc7016	4E	0.04	fcrc7014	4E	0.04
miob6595	4E	0.04	miob7518	4E	0.04
mioa2268	4E	0.04	seoa8638	4E	0.04
fcrb7402	4E	0.04	mioa1276	4E	0.04
ncr0547	4E	0.04	seob0817	4E	0.04
mioc8479	4E	0.04	ncr1235	4E	0.04
miod1108	4E	0.04	hfcr1314	4E	0.04

Se bao 60s	tE	QYOT	fcr4582	4G	2.27e-04
miod7440	4G	2.44e-07	fcrcl381	4G	2.28e-04
seoc2029	4G	6.23e-07	miob0167	4G	2.32e-04
mioc7170	4G	2.53e-06	mioc4022	4G	2.34e-04
mioc2561	4G	3.17e-06	seob0065	4G	2.35e-04
mioa2072	4G	3.26e-06	fcrc5937	4G	2.36e-04
seob5523	4G	4.23e-06	seoc0999	4G	2.44e-04
seob4419	4G	4.27e-06	fcrc0554	4G	2.48e-04
fcrc3993	4G	4.37e-06	seocl203	4G	2.49e-04
seoa4461	4G	5.29e-06	seob4191	4G	2.69e-04
seoa6032	4G	5.48e-06	mioc2726	4G	2.7e-04
miod5349	4G	6.31e-06	mioc8882	4G	2.89e-04
mioc3430	4G	7.49e-06	mioc6260	4G	2.92e-04
seoa8894	4G	1.1e-05	seoa4053	4G	3.03e-04
fcrb4534	4G	1.46e-05	fcrc0112	4G	3.06e-04
seob2697	4G	1.66e-05	ncr0153	4G	3.07e-04
ncr3751	4G	1.95e-05	ncrl631	4G	3.07e-04
seoa4518	4G	2.47e-05	seoa4366	4G	3.08e-04
seoa6133	4G	2.48e-05	seoc6169	4G	3.11e-04
miob6562	4G	2.52e-05	mioal585	4G	3.13e-04
seoa8566	4G	3.22e-05	ncrb8714	4G	3.16e-04
ncr3902	4G	3.39e-05	seoa2949	4G	3.29e-04
ncr7668	4G	4.63e-05	fcrc0487	4G	3.31e-04
fcrb3578	4G	4.7e-05	mioa7317	4G	3.37e-04
fcr2952	4G	5.1e-05	fcr2573	4G	3.43e-04
miod5123	4G	5.49e-05	seob5743	4G	3.48e-04
seob4333	4G	5.73e-05	ncrc0342	4G	3.76e-04
seob6853	4G	5.74e-05	fcrb8504	4G	3.99e-04
mioa3963	4G	6.04e-05	fcr5779	4G	4.02e-04
miod7421	4G	6.08e-05	mioa8820	4G	4.06e-04
seoa9373	4G	6.54e-05	miob7 922	4G	4.07e-04
fcrb8908	4G	7.67e-05	fcrb7830	4G	4.09e-04
mioa2319	4G	8.18e-05	fcrb4428	4G	4.19e-04
ncrb2092	4G	8.8e-05	fcrc6010	4G	4.34e-04
mioal370	4G	8.87e-05	mioc8057	4G	4.39e-04
mioc8410	4G	9.18e-05	fcr4784	4G	4.64e-04
fcrb7339	4G	9.87e-05	fcrl463	4G	4.77e-04
fcrb8516	4G	9.9e-05	fcr2103	4G	4.84e-04
fcr4477	4G	1.01e-04	miod6845	4G	4.99e-04
fcrc3739	4G	1.03e-04	seob6844	4G	5.04e-04
fcrb0265	4G	1.2e-04	ncrc4597	4G	5.18e-04
seob6576	4G	1.27e-04	seob9282	4G	5.33e-04
seob6189	4G	1.32e-04	seob0248	4G	5.56e-04
miod7414	4G	1.36e-04	seoc6703	4G	5.75e-04
mioc2094	4G	1.38e-04	miob9907	4G	5.82e-04
seoal427	4G	1.38e-04	fcr2607	4G	5.84e-04
ncr3262	4G	1.4e-04	ncrc8903	4G	5.88e-04
seoa2585	4G	1.47e-04	seoa4739	4G	5.91e-04
ncr0223	4G	1.5e-04	fcr4831	4G	5.97e-04
seoa7652	4G	1.5e-04	mioa0595	4G	6.04e-04
seob6851	4G	1.55e-04	seob9145	4G	6.11e-04
fcrb5850	4G	1.56e-04	mioal662	4G	6.2e-04
miob8812	4G	1.56e-04	fcrc3750	4G	6.22e-04
fcrb34 61	4G	1.6e-04	miod4759	4G	6.36e-04
seocl023	4G	1.66e-04	fcrc6826	4G	6.39e-04
seob4029	4G	1.69e-04	mioc7686	4G	6.41e-04
miod5651	4G	1.77e-04	ncrb22 66	4G	6.45e-04
seoa2970	4G	1.77e-04	mioa2537	4G	6.62e-04
seob5748	4G	1.79e-04	fcrc3009	4G	6.69e-04
hfcr2390	4G	1.83e-04	mioa6418	4G	7.09e-04
miod5505	4G	1.89e-04	mioc0950	4G	7.19e-04
seob6751	4G	2.02e-04	miodl925	4G	7.23e-04
seoc2264	4G	2.1e-04	mioc5532	4G	7.27e-04
fcrb2554	4G	2.2e-04	mioc4089	4G	7.46e-04

mibc736r	4G	7.52e-04	mioc6987	4G	1.45158e-03
mioc7764	4G	7.57e-04	seoa3516	4G	1.46015e-03
seob9960	4G	7.63e-04	ncr0025	4G	1.469905e-03
seoa8388	4G	7.64e-04	fcr3101	4G	1.487316e-03
fcrc6976	4G	7.65e-04	seob4579	4G	1.499276e-03
seob3303	4G	7.67e-04	ncr7595	4G	1.511845e-03
seob9574	4G	7.88e-04	fcr4128	4G	1.53383e-03
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mioa5355	4G	8.58e-04	ncr5168	4G	1.55656e-03
fcr0824	4G	8.62e-04	ncrb3001	4G	1.557302e-03
seob2994	4G	8.67e-04	fcrb8187	4G	1.573331e-03
fcrb8668	4G	8.75e-04	mioal380	4G	1.588271e-03
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fcrc7102	4G	8.87e-04	seoa9740	4G	1.598061e-03
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fcrb2556	4G	8.98e-04	mioc0052	4G	1.624699e-03
fcrcl298	4G	9.0e-04	ncrc5569	4G	1.637974e-03
ncr5568	4G	9.0e-04	mioc6075	4G	1.640004e-03
mioc4 667	4G	9.01e-04	ncrcl367	4G	1.650171e-03
ncr0808	4G	9.12e-04	seob0376	4G	1.666731e-03
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fcrc3048	4G	9.26e-04	seoa4305	4G	1.678116e-03
fcrb9454	4G	9.3e-04	mioal015	4G	1.68644e-03
mioc6212	4G	9.34e-04	seob0304	4G	1.693307e-03
fcrb9420	4G	9.64e-04	fcrc2090	4G	1.719751e-03
miod5369	4G	9.71e-04	miob6834	4G	1.736843e-03
fcr2798	4G	9.78e-04	miobll15	4G	1.756956e-03
seocl996	4G	9.81e-04	fcrb3165	4G	1.760242e-03
hfcr6486	4G	9.83e-04	seoal598	4G	1.770719e-03
ncrb5595	4G	1.013841e-03	fcrc2099	4G	1.790284e-03
fcrb7240	4G	1.015969e-03	seobl766	4G	1.794891e-03
fcrb2933	4G	1.016356e-03	fcrc5516	4G	1.799844e-03
hfcr5381	4G	1.016874e-03	fcrbl420	4G	1.801622e-03
miodl236	4G	1.028284e-03	ncr2905	4G	1.815247e-03
seob6446	4G	1.030592e-03	ncrc5054	4G	1.860924e-03
miob7105	4G	1.073216e-03	seob6525	4G	1.861275e-03
fcrc7388	4G	1.081745e-03	fcrb6949	4G	1.872239e-03
fcrc5134	4G	1.086904e-03	fcrb8161	4G	1.885852e-03
miod5310	4G	1.129688e-03	mioal520	4G	1.887743e-03
fcrbl855	4G	1.142061e-03	fcrb8740	4G	1.892065e-03
fcrb9269	4G	1.150659e-03	mioc8423	4G	1.916815e-03
mioa3395	4G	1.154329e-03	fcrb2871	4G	1.964974e-03
seob8368	4G	1.154981e-03	ncrc0150	4G	1.985831e-03
seob0122	4G	1.171391e-03	fcr7381	4G	1.992663e-03
mioa0535	4G	1.173792e-03	ncr5397	4G	2.00365e-03
seocl593	4G	1.178329e-03	miod58 94	4G	2.014527e-03
miob9336	4G	1.178419e-03	miod0340	4G	2.021229e-03
mioc7 664	4G	1.185788e-03	seob4560	4G	2.021887e-03
seoa9060	4G	1.185788e-03	fcrb8080	4G	2.025786e-03
ncrc0090	4G	1.185916e-03	mioc0824	4G	2.034483e-03
hfcr6406	4G	1.239885e-03	fcrl760	4G	2.050359e-03
miod6238	4G	1.278208e-03	fcrb9720	4G	2.057033e-03
miodl942	4G	1.305311e-03	miocll07	4G	2.070013e-03
fcrl883	4G	1.308793e-03	fcrbl733	4G	2.120875e-03
ncr4539	4G	1.309997e-03	fcrc6916	4G	2.121527e-03
mioa0909	4G	1.312146e-03	ncr0238	4G	2.1386e-03
mioc2880	4G	1.356947e-03	mioc7895	4G	2.143605e-03
seob6368	4G	1.361315e-03	seob6670	4G	2.155534e-03
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fcrl756	4G	1.392986e-03	miod2525	4G	2.174809e-03
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miob3348	4G	1.428182e-03	mioc6312	4G	2.199817e-03
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ncr7753	4G	1.444958e-03	fcr3121	4G	2.234303e-03

seob21sβ	4G	2 iA2 222e-03	ncrd6628	4G	3.732487e-03
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miob4475	4G	2.330183e-03	seobll87	4G	3.817075e-03
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fcrc5142	4G	2.464685e-03	seoa6573	4G	3.875968e-03
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mioa2374	4G	3.293401e-03	mioa0826	4G	4.884238e-03
fcr5075	4G	3.353508e-03	mioa6621	4G	4.904983e-03
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fcrl462	4G	3.423782e-03	ncr3684	4G	5.017654e-03
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317

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318

ncrb2288	4G	0.01		fcrb5644	4G	0.01
fcr6937	4G	0.01		seoa0536	4G	0.01
miod34 68	4G	0.01		ncrc5813	4G	0.01
ncrb5737	4G	0.01		seoa6658	4G	0.01
fcrb5675	4G	0.01		hfcrl419	4G	0.01
ncrc3453	4G	0.01		fcrb8465	4G	0.01
miob3763	4G	0.01		seoc2253	4G	0.01
miob2492	4G	0.01		miob6419	4G	0.01
miod6041	4G	0.01		mioc7561	4G	0.01
fcr5176	4G	0.01		seob9847	4G	0.01
fcrb5536	4G	0.01		fcrb7584	4G	0.01
mioa8622	4G	0.01		miob6030	4G	0.01
ncrc2685	4G	0.01		ncrbl085	4G	0.01
hfcr5383	4G	0.01		seoa4324	4G	0.01
mioc7260	4G	0.01		ncrO335	4G	0.01
miod4539	4G	0.01		seoc3870	4G	0.01
seob7747	4G	0.01		ncr2967	4G	0.01
ncrc9517	4G	0.01		fcrbl750	4G	0.01
seoa9729	4G	0.01		seob0418	4G	0.01
ncrc6617	4G	0.01		seobl788	4G	0.01
seob0928	4G	0.01		seoa3429	4G	0.01
fcrb5588	4G	0.01		fcr4927	4G	0.01
miod2264	4G	0.01		mioal062	4G	0.01
ncrl428	4G	0.01		seob3464	4G	0.01
fcrcl758	4G	0.01		miob8025	4G	0.01
seoa2957	4G	0.01		miod5372	4G	0.01
mioa4944	4G	0.01		mioa6091	4G	0.01
miob5708	4G	0.01		mioc4641	4G	0.01
seoc7684	4G	0.01		fcr3032	4G	0.01
fcrb2190	4G	0.01		seob4539	4G	0.01
seob5007	4G	0.01		mioc8379	4G	0.01
miod3494	4G	0.01		seoa2272	4G	0.01
miob5119	4G	0.01		miob2905	4G	0.01
ncr7082	4G	0.01		seoc5612	4G	0.01
ncrO851	4G	0.01		fcr3861	4G	0.01
ncrel414	4G	0.01		ncr9779	4G	0.01
fcrb2813	4G	0.01		seobl322	4G	0.01
mioc6847	4G	0.01		ncr9919	4G	0.01
fcrcO637	4G	0.01		ncr8827	4G	0.01
fcrb8901	4G	0.01		seob9480	4G	0.01
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ncr0045	4G	0.01		miod6947	4G	0.01
seoc4748	4G	0.01		fcrb3497	4G	0.01
fcrc4658	4G	0.01		fcrl305	4G	0.01
fcrb6968	4G	0.01		fcrc2969	4G	0.01
fcrcl745	4G	0.01		hfcr2797	4G	0.01
mioc7807	4G	0.01		mioa7512	4G	0.01
miob2375	4G	0.01		miob3131	4G	0.01
mioa0891	4G	0.01		ncrc6127	4G	0.01
fcr6841	4G	0.01		seob3419	4G	0.01
mioc7370	4G	0.01		mioa0152	4G	0.01
seoa5429	4G	0.01		fcrb2054	4G	0.01
hfcr6640	4G	0.01		seoc0866	4G	0.01
fcrb9456	4G	0.01		ncr4126	4G	0.01
mioc2039	4G	0.01		fcr2700	4G	0.01
fcrb2784	4G	0.01		seoa8348	4G	0.01
ncr8290	4G	0.01		miod0686	4G	0.01
fcr0508	4G	0.01		fcrb2596	4G	0.01
mioc7509	4G	0.01		seob0751	4G	0.01
ncrc3258	4G	0.01		miobl789	4G	0.01
miob3411	4G	0.01		ncr6141	4G	0.01
mioa3646	4G	0.01		mioa9935	4G	0.01
seoa4107	4G	0.01		seoal979	4G	0.01
seoa0931	4G	0.01		miod7238	4G	0.01

fcrb6759	4G	0.01		fcrc0839	4G	0.02
ncrc9024	4G	0.01		miod0441	4G	0.02
fcrb7392	4G	0.01		ncr5781	4G	0.02
mioa3799	4G	0.01		miob3396	4G	0.02
mioa6999	4G	0.01		fcr3043	4G	0.02
mioc0940	4G	0.01		seoc3980	4G	0.02
seob5490	4G	0.01		fcrb2591	4G	0.02
seob2081	4G	0.01		fcrc4390	4G	0.02
miocl440	4G	0.01		ncrb3003	4G	0.02
ncrc2273	4G	0.01		fcrc4896	4G	0.02
ncrc5608	4G	0.01		seoe4862	4G	0.02
miob4238	4G	0.01		miocl580	4G	0.02
mioc8474	4G	0.01		hfcr4007	4G	0.02
fcr5803	4G	0.01		miob4975	4G	0.02
fcrb3008	4G	0.01		miod4857	4G	0.02
seob0182	4G	0.01		seob6680	4G	0.02
seob9044	4G	0.01		fcrb2690	4G	0.02
mioa6807	4G	0.01		seoa3628	4G	0.02
seoa2962	4G	0.02		fcr2859	4G	0.02
hfcr4488	4G	0.02		ncrc2888	4G	0.02
fcrb2926	4G	0.02		ncrc6076	4G	0.02
fcrbl381	4G	0.02		fcrb6990	4G	0.02
fcr6616	4G	0.02		fcrb3519	4G	0.02
seoa3634	4G	0.02		miob2709	4G	0.02
seob3533	4G	0.02		mioa0220	4G	0.02
seob5551	4G	0.02		seoc2030	4G	0.02
fcrb2658	4G	0.02		seoc6099	4G	0.02
ncrc4885	4G	0.02		mioc4290	4G	0.02
seob5080	4G	0.02		seoa3555	4G	0.02
seoa7935	4G	0.02		ncrc6981	4G	0.02
hfcr2505	4G	0.02		fcr0027	4G	0.02
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seob6156	4G	0.02		ncrc9284	4G	0.02
mioal055	4G	0.02		mioc5736	4G	0.02
mioc8278	4G	0.02		fcrc7331	4G	0.02
seob4192	4G	0.02		ncr0212	4G	0.02
miodl675	4G	0.02		fcrb9499	4G	0.02
fcrc0529	4G	0.02		fcr0064	4G	0.02
miod2128	4G	0.02		fcrb0623	4G	0.02
ncr3149	4G	0.02		seoa3752	4G	0.02
ncrb8063	4G	0.02		ncr2717	4G	0.02
miob7109	4G	0.02		fcr5507	4G	0.02
seoa7917	4G	0.02		fcrb0598	4G	0.02
seoa8776	4G	0.02		hfcr5045	4G	0.02
seobl834	4G	0.02		seob8999	4G	0.02
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seocl264	4G	0.02		fcrb6725	4G	0.02
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seob9122	4G	0.02		ncrc6439	4G	0.02
miob9821	4G	0.02		fcrcl669	4G	0.02
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miob2116	4G	0.02		mioa3940	4G	0.02
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mioc7910	4G	0.02		seob9241	4G	0.03
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mioc3208	4G	0.02		seob6558	4G	0.03
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seoc2810	4G	0.02		mioa0862	4G	0.03
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seob1947	4G	0.02		seoa1789	4G	0.03
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miob0865	4G	0.02		ncrc9642	4G	0.03

321

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miob5810	4G	0.03	seoa6598	4G	0.03
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fcrb4016	4G	0.03	hfcr5522	4G	0.04
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mioc7360	4G	0.03	ncr0547	4G	0.04
seoa7369	4G	0.03	fcrb4340	4G	0.04
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fcrc3605	4G	0.03	ncrb2909	4G	0.04
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fcr0490	4G	0.04	seoa4461	41	5.29e-06
fcrb6111	4G	0.04	seoa6032	41	5.48e-06
mioc4782	4G	0.04	miod5349	41	6.31e-06
miod6016	4G	0.04	mioc3430	41	7.49e-06
seob4147	4G	0.04	seoa8894	41	1.1e-05
ncr9337	4G	0.04	mioa9473	41	1.36e-05
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seoa5258	4G	0.04	fcrb4534	41	1.46e-05
fcrb9714	4G	0.04	seob2697	41	1.66e-05
seob1748	4G	0.04	seoc0775	41	1.67e-05
ncrc5738	4G	0.04	ncr3751	41	1.95e-05
seoe4484	4G	0.04	seoa4518	41	2.47e-05
fcrb5656	4G	0.04	seoa6133	41	2.48e-05
mioc6960	4G	0.04	miob6562	41	2.52e-05
ncrb3541	4G	0.04	seob0085	41	3.04e-05
miod6658	4G	0.04	seoa8566	41	3.22e-05
mioc2728	4G	0.04	seoa8754	41	3.62e-05
fcrc4948	4G	0.04	mioa2788	41	4.4e-05
ncr0132	4G	0.04	mioa3367	41	4.43e-05
seob4363	4G	0.04	ncrc5243	41	4.53e-05
ncr2304	4G	0.04	seob3326	41	4.9e-05
fcrb4333	4G	0.04	miob6419	41	5.13e-05
fcr6181	4G	0.04	miod5123	41	5.49e-05
seob2131	4G	0.04	mioa9179	41	5.61e-05
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fcrb5275	4G	0.04	seob6853	41	5.74e-05
fcrb9382	4G	0.04	ncrc0729	41	5.77e-05
miob2668	4G	0.04	seoa8916	41	5.83e-05
miod0126	4G	0.04	seob3518	41	5.95e-05
miod6044	4G	0.04	mioa3963	41	6.04e-05
seob004 6	4G	0.04	seoa9373	41	6.54e-05
miod6731	4G	0.04	mioa4636	41	6.55e-05
fcr37 06	4G	0.04	cr0471	41	6.77e-05
fcr5812	4G	0.04	miob6430	41	7.39e-05
fcrb0130	4G	0.04	seoa1940	41	7.43e-05
seoa8921	4G	0.04	mioa3913	41	7.5e-05
seoa0740	4G	0.04	fcrb1892	41	7.58e-05
fcr5930	4G	0.04	seoa9042	41	7.7e-05
mioc4696	4G	0.04	seoa0032	41	8.0e-05
miod2412	4G	0.04	mioa2319	41	8.18e-05
ncr2583	4G	0.04	seob5240	41	8.29e-05
seoa2795	4G	0.04	ncrc9899	41	8.35e-05
fcr6881	4G	0.04	fcr5075	41	8.62e-05
fcrc0129	4G	0.04	ncrb2092	41	8.8e-05
fcrb7829	4G	0.04	hfcr8902	41	8.84e-05
miob9700	4G	0.04	mioa1370	41	8.87e-05
ncrc0644	4G	0.04	seoa9482	41	9.27e-05
ncrd9362	4G	0.04	seob6004	41	9.64e-05
seoe3634	4G	0.04	fcrb8516	41	9.9e-05
seoa1567	4G	0.04	hfcr3043	41	1.0e-04
seoc2589	4G	0.04	ncrc5434	41	1.0e-04
ncre5107	4G	0.04	fcr4477	41	1.01e-04
hfcr1314	4G	0.04	fcrc3739	41	1.03e-04
seoa2141	4G	0.04	fcrb6939	41	1.04e-04
fcr3053	41	3.37e-07	hfcr5919	41	1.04e-04
seoc2029	41	6.23e-07	mioa3923	41	1.12e-04
fcr3181	41	7.1e-07	seob4427	41	1.16e-04
ncr3163	41	2.24e-06	ncrb4441	41	1.22e-04
mioc7170	41	2.53e-06	hfcr1137	41	1.23e-04
mioa2072	41	3.26e-06	seob0154	41	1.23e-04
seob4303	41	3.35e-06	fcrb1960	41	1.25e-04
seob5523	41	4.23e-06	seoa0231	41	1.25e-04
seob4419	41	4.27e-06	seob6576	41	1.27e-04
fcrc3993	41	4.37e-06	mioa5059	41	1.29e-04

seob6189	41	1.32e-04	seoa4053	41	3.03e-04
miod7414	41	1.36e-04	seob6467	41	3.03e-04
mioc2094	41	1.38e-04	fcrc0112	41	3.06e-04
miob6881	41	1.44e-04	ncr0153	41	3.07e-04
fcr0253	41	1.45e-04	seoa4366	41	3.08e-04
seoa2585	41	1.47e-04	seoc6169	41	3.11e-04
seoa7652	41	1.5e-04	mioa1585	41	3.13e-04
seob3313	41	1.51e-04	hfcr3011	41	3.15e-04
seoa4717	41	1.52e-04	ncrb8714	41	3.16e-04
seob6851	41	1.55e-04	seoa5662	41	3.21e-04
fcrb5850	41	1.56e-04	seoa0486	41	3.23e-04
miob8812	41	1.56e-04	fcrc0487	41	3.31e-04
fcrb3461	41	1.6e-04	ncr3837	41	3.33e-04
mioa4009	41	1.63e-04	mioa7317	41	3.37e-04
ncrc6171	41	1.66e-04	hfcrl863	41	3.39e-04
seocl023	41	1.66e-04	fcr2573	41	3.43e-04
seoa0959	41	1.68e-04	seob5743	41	3.48e-04
seob4029	41	1.69e-04	mioa5695	41	3.5e-04
mioa4014	41	1.73e-04	fcrb6968	41	3.6e-04
fcrb2704	41	1.74e-04	seob7584	41	3.63e-04
seob3189	41	1.76e-04	fcrb3578	41	3.7e-04
miob3953	41	1.77e-04	ncrc0342	41	3.76e-04
miod5651	41	1.77e-04	ncrc5417	41	3.79e-04
seoa2970	41	1.77e-04	seob3854	41	3.91e-04
seob5748	41	1.79e-04	seob6279	41	3.96e-04
ncr7904	41	1.8e-04	fcrb8504	41	3.99e-04
ncr8588	41	1.82e-04	seob3367	41	4.04e-04
seobl231	41	1.85e-04	seob3182	41	4.09e-04
miod5505	41	1.89e-04	hfcr4489	41	4.15e-04
fcrb3654	41	1.91e-04	fcrb4428	41	4.19e-04
seob6751	41	2.02e-04	ncr0898	41	4.21e-04
mioa6130	41	2.04e-04	mioc8057	41	4.39e-04
seoc2264	41	2.1e-04	miobl231	41	4.43e-04
fcr7587	41	2.15e-04	fcr5559	41	4.69e-04
fcrb2554	41	2.2e-04	seoa6497	41	4.69e-04
ncr0212	41	2.21e-04	seoa6598	41	4.73e-04
ncr3197	41	2.22e-04	fcrl463	41	4.77e-04
fcr2607	41	2.23e-04	fcr2103	41	4.84e-04
fcr4582	41	2.27e-04	seob3191	41	4.89e-04
fcr4846	41	2.28e-04	seobl319	41	4.91e-04
fcrcl381	41	2.28e-04	miod6845	41	4.99e-04
miob0167	41	2.32e-04	ncrc5663	41	5.0e-04
mioa0311	41	2.33e-04	seob6844	41	5.04e-04
seocl175	41	2.33e-04	mioa9510	41	5.12e-04
mioc4022	41	2.34e-04	mioc2602	41	5.18e-04
mioa8970	41	2.35e-04	ncrc4597	41	5.18e-04
seob0065	41	2.35e-04	ncrc4757	41	5.23e-04
fcrc5937	41	2.36e-04	fcr3664	41	5.26e-04
seobl911	41	2.39e-04	seob4669	41	5.33e-04
mioa3939	41	2.4e-04	seob9282	41	5.33e-04
ncr0045	41	2.44e-04	ncr7813	41	5.48e-04
seoc0999	41	2.44e-04	seoa7530	41	5.56e-04
fcrc0554	41	2.48e-04	seob0248	41	5.56e-04
seocl203	41	2.49e-04	seoa0288	41	5.7e-04
hfcrl073	41	2.54e-04	mioa6064	41	5.71e-04
fcrc0075	41	2.58e-04	miob9907	41	5.82e-04
fcr6235	41	2.6e-04	ncrc8903	41	5.88e-04
seoc4960	41	2.65e-04	seob2148	41	5.88e-04
miob6223	41	2.67e-04	fcr4831	41	5.97e-04
miob8694	41	2.87e-04	mioa0595	41	6.04e-04
ncr0258	41	2.89e-04	seob9145	41	6.11e-04
ncr4126	41	2.91e-04	mioal662	41	6.2e-04
mioc6260	41	2.92e-04	fcrc3750	41	6.22e-04
fcrb6012	41	3.0e-04	seoal102	41	6.3e-04

miod4759	41	6.36e-04	seob6272	41	9.74e-04
fcrc6826	41	6.39e-04	seoa5090	41	1.007122e-03
mioc7686	41	6.41e-04	mioa2173	41	1.00875e-03
ncrb2266	41	6.45e-04	fcrb7240	41	1.015969e-03
seob6835	41	6.58e-04	fcr7043	41	1.016688e-03
mioa2537	41	6.62e-04	miodl236	41	1.028284e-03
seoa3717	41	6.62e-04	seob6446	41	1.030592e-03
fcrc3009	41	6.69e-04	seob2936	41	1.039004e-03
mioc8410	41	6.98e-04	ncrb8 693	41	1.046851e-03
mioa6418	41	7.09e-04	mioa9154	41	1.070876e-03
mioc0950	41	7.19e-04	seoa6658	41	1.070876e-03
miod.1925	41	7.23e-04	ncrb2288	41	1.076406e-03
ncrc9910	41	7.24e-04	fcrc7388	41	1.081745e-03
seoa0221	41	7.25e-04	fcrb9588	41	1.089146e-03
mioc5532	41	7.27e-04	miob8572	41	1.097548e-03
mioc4089	41	7.46e-04	seob8204	41	1.099016e-03
mioc7764	41	7.57e-04	miod5894	41	1.100493e-03
seoa4681	41	7.58e-04	ncrc0174	41	1.123083e-03
seob6131	41	7.61e-04	hfcr5604	41	1.140826e-03
seob9960	41	7.63e-04	seoa7443	41	1.140826e-03
seoa8388	41	7.64e-04	fcrbl855	41	1.142061e-03
seob3303	41	7.67e-04	ncr3713	41	1.150048e-03
mioa4552	41	7.78e-04	fcrb9269	41	1.150659e-03
mioa4484	41	7.8e-04	seob8368	41	1.154981e-03
ncr8843	41	7.83e-04	seob0122	41	1.171391e-03
seoa9537	41	7.83e-04	mioa0535	41	1.173792e-03
seob9574	41	7.88e-04	miobl062	41	1.177608e-03
seob0308	41	7.98e-04	seobl793	41	1.177608e-03
mioall93	41	8.04e-04	seocl593	41	1.178329e-03
seobl318	41	8.04e-04	miob9336	41	1.178419e-03
hfcr6687	41	8.17e-04	seobl862	41	1.201035e-03
fcrbl496	41	8.19e-04	seoa3105	41	1.211669e-03
miob8320	41	8.21e-04	seob3670	41	1.23222e-03
seob0376	41	8.21e-04	miob4867	41	1.256093e-03
seoa8979	41	8.23e-04	ncrcl140	41	1.256093e-03
seoa9357	41	8.24e-04	fcr5720	41	1.2614e-03
ncrb0782	41	8.27e-04	miod6238	41	1.278208e-03
seob3923	41	8.31e-04	mioc7331	41	1.301405e-03
ncr2293	41	8.33e-04	ncrc6005	41	1.305117e-03
seob0755	41	8.35e-04	miodl942	41	1.305311e-03
ncr0733	41	8.46e-04	mioa0909	41	1.312146e-03
hfcr5220	41	8.48e-04	seobl879	41	1.347303e-03
ncrc5844	41	8.48e-04	miob6904	41	1.355302e-03
raioa5355	41	8.58e-04	mioc2880	41	1.356947e-03
ncr8041	41	8.61e-04	seob6368	41	1.361315e-03
seob2994	41	8.67e-04	ncr2472	41	1.365497e-03
seob3119	41	8.73e-04	ncrb8385	41	1.369106e-03
fcrb8668	41	8.75e-04	fcrl756	41	1.392986e-03
ncrc9784	41	8.77e-04	miod6038	41	1.395436e-03
seob6206	41	8.88e-04	fcr2088	41	1.408465e-03
mioa6731	41	8.9e-04	miob3348	41	1.428182e-03
ncr5568	41	9.0e-04	miodl195	41	1.431152e-03
mioc4667	41	9.01e-04	fcrl879	41	1.452287e-03
mioa5696	41	9.03e-04	mioa6721	41	1.457877e-03
hfcrll63	41	9.1e-04	seoa3516	41	1.46015e-03
ncr0808	41	9.12e-04	ncr0025	41	1.469905e-03
hfcr3019	41	9.19e-04	hfcrl310	41	1.478083e-03
fcrc3048	41	9.26e-04	fcrb9959	41	1.48762e-03
fcrb9454	41	9.3e-04	fcrb5214	41	1.490057e-03
seoa6315	41	9.33e-04	ncrb4182	41	1.50404e-03
fcrb9655	41	9.37e-04	ncrb3702	41	1.511682e-03
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fcrb8187	41	1.573331e-03	fcrb1733	41	2.120875e-03
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miodl811	41	1.590472e-03	mioc7895	41	2.143605e-03
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mioa0494	41	1.619093e-03	seob8501	41	2.166556e-03
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fcrbl420	41	1.801622e-03	ncrc9469	41	2.33257e-03
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fcrb8940	41	1.834572e-03	hfcr6700	41	2.362015e-03
miob5495	41	1.838333e-03	seoa5577	41	2.367648e-03
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fcrbl807	41	1.859263e-03	ncrb8273	41	2.393454e-03
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seob6525	41	1.861275e-03	mioa9294	41	2.412283e-03
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seoa8399	41	1.88316e-03	ncrc5369	41	2.435634e-03
fcrb8161	41	1.885852e-03	seob5219	41	2.439695e-03
mioal520	41	1.887743e-03	seoa5444	41	2.479655e-03
fcrb8740	41	1.892065e-03	seoal173	41	2.502414e-03
seob2810	41	1.901388e-03	miob0189	41	2.57178e-03
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fcr2079	41	2.016524e-03	seoc0276	41	2.725532e-03
seob4560	41	2.021887e-03	fcr0999	41	2.730498e-03
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fcrb8080	41	2.025786e-03	fcr3559	41	2.734761e-03
seob0201	41	2.050861e-03	mioal660	41	2.749542e-03
fcrb9720	41	2.057033e-03	seoc0513	41	2.753054e-03
fcr5470	41	2.060807e-03	ncrc9712	41	2.760324e-03
ncrc4079	41	2.066895e-03	miod5707	41	2.770552e-03

miob8711	41	2.809832e-03	seoa6661	41	3.644681e-03
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seob9946	41	2.84126e-03	ncr0478	41	3.666381e-03
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seoa8543	41	2.874349e-03	seob4117	41	3.700072e-03
miob3898	41	2.881671e-03	ncrb8134	41	3.708615e-03
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fcrcl849	41	2.952953e-03	miob8932	41	3.752087e-03
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seoa0008	41	3.007551e-03	seoa3408	41	3.790116e-03
seob0168	41	3.016761e-03	mioa8774	41	3.812303e-03
seob2221	41	3.044324e-03	seoa7546	41	3.830009e-03
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seoa5683	41	3.160612e-03	fcrb6009	41	3.925377e-03
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seoa9160	41	3.207335e-03	hfcr9613	41	4.011004e-03
fcrbl552	41	3.209013e-03	miob4055	41	4.011569e-03
miob4 836	41	3.218792e-03	miob0154	41	4.03718e-03
ncr0438	41	3.245826e-03	seoa2442	41	4.093483e-03
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ncrc2776	41	3.322303e-03	fcrb9694	41	4.20251e-03
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ncrb0513	41	3.349517e-03	miod4140	41	4.240281e-03
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fcrb3017	41	3.376066e-03	ncrc9877	41	4.26595e-03
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mioc7441	41	3.437924e-03	raiob8226	41	4.470203e-03
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mioa3514	41	3.46245e-03	seob3462	41	4.509349e-03
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mioc3726	41	3.550472e-03	ncrc5150	41	4.691321e-03
seob2188	41	3.584274e-03	ncrl563	41	4.707547e-03
seob2797	41	3.6022e-03	seob4621	41	4.707547e-03
seobl667	41	3.640309e-03	fcrc7047	41	4.744327e-03

seob5562	41	4.746427e-03	mioa8647	41	5.768458e-03
seoa4395	41	4.779169e-03	mioal445	41	5.811166e-03
hfcr6468	41	4.79651e-03	seoc3588	41	5.826485e-03
ncrb8253	41	4.799003e-03	ncrc3468	41	5.832748e-03
seoa5986	41	4.799003e-03	miob9052	41	5.833135e-03
raiob5736	41	4.80808e-03	mioc5664	41	5.835444e-03
seob3151	41	4.834042e-03	fcrb2137	41	5.84394e-03
seob9292	41	4.848082e-03	hfcr5207	41	5.84394e-03
seoa7517	41	4.870405e-03	mioa2327	41	5.859459e-03
fcrb4415	41	4.898061e-03	fcrb9147	41	5.861796e-03
mioa6621	41	4.904983e-03	seob5458	41	5.862878e-03
seob9649	41	4.907044e-03	seoa5554	41	5.877316e-03
miocl122	41	4.93196e-03	seoal552	41	5.896449e-03
ncrc6795	41	4.933324e-03	seoa3230	41	5.898784e-03
seoa3847	41	4.942903e-03	fcrl844	41	5.913324e-03
fcr5625	41	4.99519e-03	fcrb5267	41	5.942373e-03
ncr3684	41	5.017654e-03	fcrb6896	41	5.949973e-03
ncrb2091	41	5.039376e-03	fcrc0094	41	5.96467e-03
hfcr2287	41	5.054567e-03	miob3684	41	5.971717e-03
fcrc2576	41	5.063792e-03	fcr6390	41	6.000719e-03
seoa0501	41	5.071997e-03	seobl737	41	6.007946e-03
fcrc0430	41	5.084925e-03	fcr2074	41	6.018802e-03
hfcr0750	41	5.09128e-03	fcrl883	41	6.048593e-03
mioa3379	41	5.102551e-03	fcr5536	41	6.049129e-03
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seoa6923	41	5.124127e-03	fcrb2218	41	6.116835e-03
ncrc5500	41	5.175143e-03	mioc7444	41	6.13308e-03
mioa8946	41	5.185969e-03	seoa3704	41	6.146625e-03
fcr0056	41	5.190905e-03	seob0321	41	6.178138e-03
ncrc5039	41	5.197151e-03	ncrbl337	41	6.21911e-03
hfcr5009	41	5.200779e-03	ncrcOlOl	41	6.221193e-03
fcrc4360	41	5.250167e-03	ncrb6833	41	6.229488e-03
fcrb4241	41	5.25156e-03	ncr0075	41	6.26855e-03
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fcrc6563	41	5.282794e-03	ncrO766	41	6.276933e-03
seoa2122	41	5.287317e-03	ncrc6817	41	6.276933e-03
fcrO768	41	5.301658e-03	mioa2013	41	6.287512e-03
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miod3254	41	5.326719e-03	miod4142	41	6.383134e-03
fcrcl745	41	5.32716e-03	ncrc6712	41	6.41394e-03
mioa4196	41	5.344108e-03	fcr5779	41	6.474618e-03
mioc8619	41	5.353299e-03	seoa6197	41	6.486591e-03
ncrc4654	41	5.369673e-03	seob0703	41	6.50097e-03
seob4515	41	5.369673e-03	miob6821	41	6.505915e-03
mioc2074	41	5.414445e-03	ncrb8343	41	6.552284e-03
ncr4545	41	5.438486e-03	seoa5911	41	6.597064e-03
seoa0029	41	5.480759e-03	fcrb2292	41	6.653984e-03
fcr0990	41	5.490991e-03	seob4191	41	6.654737e-03
fcrbl684	41	5.495549e-03	fcrb2765	41	6.689668e-03
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seoal856	41	5.531453e-03	ncr4384	41	6.700762e-03
fcrc6854	41	5.540234e-03	seob4039	41	6.713668e-03
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seob2987	41	5.569207e-03	fcrb5422	41	6.7264e-03
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seob9772	41	6.956817e-03	seob0466	41	8.285506e-03
mioa9581	41	6.958796e-03	mioa9630	41	8.304775e-03
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seoa6137	41	7.003723e-03	seoa0070	41	8.335344e-03
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seob5012	41	7.108081e-03	seoa5465	41	8.437929e-03
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mioa0328	41	7.377639e-03	mioa6738	41	8.769774e-03
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miob4221	41	7.572537e-03	fcrcl834	41	8.876728e-03
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seoa6152	41	7.680441e-03	miob3696	41	8.981708e-03
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331

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ncr3396	41	0.01		ncrc9023	41	0.01
miob9185	41	0.01		ncr0615	41	0.01
seoa9724	41	0.01		seob7744	41	0.01
mioc0140	41	0.01		ncrc3072	41	0.01
ncrcl176	41	0.01		fcrb3298	41	0.01
seob5592	41	0.01		mioa2156	41	0.01
seob9480	41	0.01		fcrc6174	41	0.01
seobl526	41	0.01		ncrc1952	41	0.01
ncrb6661	41	0.01		hfcr0383	41	0.02
seob9756	41	0.01		ncrb7166	41	0.02
miod.6947	41	0.01		miod5698	41	0.02
fcrl833	41	0.01		hfcr3592	41	0.02
fcr3983	41	0.01		seob2685	41	0.02
mioal531	41	0.01		seobl617	41	0.02
mioa8796	41	0.01		fcr0018	41	0.02
seoa6621	41	0.01		seobl243	41	0.02
hfcr6680	41	0.01		ncrb6037	41	0.02
fcr6386	41	0.01		seob3533	41	0.02
miobl946	41	0.01		seoa3352	41	0.02
seoa3863	41	0.01		miodl44 8	41	0.02
fcrl305	41	0.01		miob4712	41	0.02
fcrb8092	41	0.01		seobl513	41	0.02
fcrb2596	41	0.01		fcrb2658	41	0.02
ncrc3141	41	0.01		mioc0630	41	0.02
seoa8239	41	0.01		hfcr2505	41	0.02
ncrb6327	41	0.01		seoc4052	41	0.02
fcrb3550	41	0.01		seoa0219	41	0.02
mioa8539	41	0.01		mioa0647	41	0.02
fcr5509	41	0.01		mioc4766	41	0.02
ncr8693	41	0.01		mioa0582	41	0.02
ncrc9159	41	0.01		mioal055	41	0.02
seob2077	41	0.01		ncrc5088	41	0.02
seob3419	41	0.01		seob4192	41	0.02
ncrc2859	41	0.01		fcrc0529	41	0.02
mioc0741	41	0.01		miod2128	41	0.02
fcrbl7 63	41	0.01		miob2687	41	0.02
mioa0152	41	0.01		fcrb5204	41	0.02
fcr0712	41	0.01		ncr3598	41	0.02

ncrb8063	41	0.02	seob9818	41	0.02
hfcr5232	41	0.02	seoa8486	41	0.02
fcr2299	41	0.02	ncr2717	41	0.02
seob3370	41	0.02	seoa1582	41	0.02
fcrb6062	41	0.02	mioc0090	41	0.02
ncr5939	41	0.02	mioc3930	41	0.02
seoa9389	41	0.02	hfcr6366	41	0.02
miobl337	41	0.02	fcrb9751	41	0.02
seoa7608	41	0.02	seob3356	41	0.02
miob8657	41	0.02	seob4075	41	0.02
ncrb4319	41	0.02	ncrb8665	41	0.02
hfcr0225	41	0.02	seoa6038	41	0.02
seob0831	41	0.02	fcrb2866	41	0.02
ncrc9483	41	0.02	seoa5382	41	0.02
seob5645	41	0.02	seoa6155	41	0.02
fcr2940	41	0.02	ncrc5072	41	0.02
mioa2475	41	0.02	seoa9817	41	0.02
fcrcl660	41	0.02	seob7180	41	0.02
hfcr0351	41	0.02	seoc4505	41	0.02
seob9067	41	0.02	hfcr3436	41	0.02
ncr5713	41	0.02	ncrcl402	41	0.02
seob0745	41	0.02	fcrc4485	41	0.02
seoa4023	41	0.02	ncr2792	41	0.02
fcrbl529	41	0.02	ncrc6439	41	0.02
ncrc5363	41	0.02	seob3451	41	0.02
seob0763	41	0.02	seoa1883	41	0.02
fcrb4238	41	0.02	fcr5112	41	0.02
miod2330	41	0.02	fcrb6676	41	0.02
hfcr7576	41	0.02	seob9430	41	0.02
seob3415	41	0.02	fcr6534	41	0.02
fcrc4037	41	0.02	ncrc7040	41	0.02
hfcr3441	41	0.02	miod6068	41	0.02
fcrb2876	41	0.02	mioc2799	41	0.02
miob3396	41	0.02	fcrb4252	41	0.02
miob6372	41	0.02	seob5490	41	0.02
fcrb2591	41	0.02	seob2642	41	0.02
seob2807	41	0.02	seob7764	41	0.02
fcrc4390	41	0.02	fcrb2189	41	0.02
hfcr3404	41	0.02	seob4118	41	0.02
fcrb2308	41	0.02	seoa8397	41	0.02
miod3302	41	0.02	seoa5302	41	0.02
ncr0335	41	0.02	miob5646	41	0.02
fcrc4896	41	0.02	seoa1571	41	0.02
seob4676	41	0.02	ncr7151	41	0.02
fcrcl763	41	0.02	hfcrlll5	41	0.02
seoa6887	41	0.02	ncrc9117	41	0.02
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fcrbl721	41	0.02	ncrc0640	41	0.02
seoc2030	41	0.02	ncr5066	41	0.02
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fcrc2131	41	0.02	fcr4634	41	0.02
seob0872	41	0.02	ncr9165	41	0.02
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mioa3342	41	0.02		seoa3287	41	0.02
mioal071	41	0.02		seob4992	41	0.02
seob4752	41	0.02		miob8947	41	0.02
hfcr2295	41	0.02		miob3690	41	0.02
fcrb2430	41	0.02		seoa3556	41	0.02
seoa6412	41	0.02		fcrbl547	41	0.02
seoa8597	41	0.02		seoa0135	41	0.02
seob6153	41	0.02		miodl542	41	0.02
fcrbl657	41	0.02		ncrl912	41	0.02
seob2139	41	0.02		fcrb4275	41	0.02
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ncr3843	41	0.02		ncrcl595	41	0.02
seoa4158	41	0.02		fcr6592	41	0.02
ncrb8820	41	0.02		seob4835	41	0.02
fcrbl962	41	0.02		fcrb2715	41	0.03
ncrc0115	41	0.02		seob2959	41	0.03
seob9266	41	0.02		seob9241	41	0.03
seob4424	41	0.02		mioa6428	41	0.03
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seob5044	41	0.02		seob4480	41	0.03
ncrc2018	41	0.02		fcr7374	41	0.03
ncrc4033	41	0.02		mioa0308	41	0.03
fcrb254 6	41	0.02		ncr8542	41	0.03
ncrc4313	41	0.02		miob7554	41	0.03
fcrb5439	41	0.02		seob3485	41	0.03
fcrb6436	41	0.02		seob3076	41	0.03
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ncr8112	41	0.02		fcrb2040	41	0.03
ncrb7726	41	0.02		hfcr2789	41	0.03
fcrb4921	41	0.02		ncrl526	41	0.03
fcrb2223	41	0.02		ncrcl999	41	0.03
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mioc2173	41	0.02		seoc0312	41	0.03
ncrb6818	41	0.02		ncrc8881	41	0.03
seoa8177	41	0.02		ncrc0576	41	0.03
fcrc2670	41	0.02		ncrcl665	41	0.03
seoa5894	41	0.02		seob4537	41	0.03
fcrb6426	41	0.02		seoa2777	41	0.03
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fcrbl337	41	0.02		seob6558	41	0.03
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seob7575	41	0.03	fcrb4248	41	0.03
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seoc3883	41	0.03	fcrb2472	41	0.03
seob3513	41	0.03	ncrb2272	41	0.03
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seoa9935	41	0.04	mioa3439	41	0.04
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seoa3489	41	0.04	fcrb2744	41	0.04
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seobl081	41	0.04	fcr4444	41	0.04
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mioa0891	41	0.04	seob0999	41	0.04
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mioc6983	41	0.04	fcrb54 49	41	0.04
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mioc8479	41	0.04	fcr5519	41	0.04
miod.1108	41	0.04	miod2323	41	0.04
seoa2041	41	0.04	ncrc4994	41	0.04
seob3751	41	0.04	mioa7299	41	0.04
seob0185	41	0.04	ncr0176	41	0.04
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seob3734	41	0.04	seoa8921	41	0.04
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fcrc0559	41	0.04	ncr7345	41	0.04
miob3131	41	0.04	hfcr2544	41	0.04
fcrb7584	41	0.04	hfcrl314	41	0.04
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seoc0778	41	0.04	fcrb9714	41	0.04
miob0939	41	0.04	miod74 40	4K	2.44e-07
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ncrc4875	41	0.04	mioa2072	4K	3.26e-06
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fcrbl724	41	0.04	fcrc3993	4K	4.37e-06

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miob6562	4K	2.52e-05	fcrc6976	4K	7.65e-04
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seob4333	4K	5.73e-05	ncrc2080	4K	8.53e-04
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miod7421	4K	6.08e-05	ncr8041	4K	8.61e-04
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340

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seoal789	4K	0.03		seoa8716	4K	0.04
miob3531	4K	0.03		ncrc4875	4K	0.04
ncrc0793	4K	0.03		miod5190	4K	0.04
miod7461	4K	0.03		mioa0908	4K	0.04
miob5699	4K	0.03		seoc5285	4K	0.04
mioc3994	4K	0.03		ncr8843	4K	0.04
fcr5369	4K	0.03		mioc4086	4K	0.04
fcrb8664	4K	0.03		fcr4832	4K	0.04

seob6582	4K	0.04		ncrc5663	4M	5.0e-04
ncrc9039	4K	0.04		ncrc4757	4M	5.23e-04
fcrc4948	4K	0.04		seob9282	4M	5.33e-04
ncr0132	4K	0.04		seoa4739	4M	5.91e-04
miod4998	4K	0.04		fcr2573	4M	6.62e-04
mioc2133	4K	0.04		fcrc3009	4M	6.69e-04
seob1737	4K	0.04		mioc4089	4M	7.46e-04
seoc5627	4K	0.04		mioc7362	4M	7.52e-04
fcr0860	4K	0.04		fcrc6976	4M	7.65e-04
seob3394	4K	0.04		seob9574	4M	7.88e-04
seob0046	4K	0.04		seoa8979	4M	8.23e-04
ncrc0704	4K	0.04		hfcr0478	4M	8.43e-04
miod6731	4K	0.04		ncr8041	4M	8.61e-04
ncr2591	4K	0.04		ncrc9784	4M	8.77e-04
seoa0740	4K	0.04		fcrc7102	4M	8.87e-04
mioc4696	4K	0.04		mioa6731	4M	8.9e-04
fcr7518	4K	0.04		fcrb2556	4M	8.98e-04
seob6198	4K	0.04		miob7156	4M	9.1e-04
mioa8314	4K	0.04		fcr2798	4M	9.78e-04
ncr2994	4K	0.04		hfcr6486	4M	9.83e-04
fcrb2015	4K	0.04		fcrb7240	4M	1.015969e-03
mioa5326	4K	0.04		hfcr5381	4M	1.016874e-03
hfcr1314	4K	0.04		miob7105	4M	1.073216e-03
miod7440	4M	2.44e-07		miob3982	4M	1.105438e-03
mioc7170	4M	2.53e-06		mioa3395	4M	1.154329e-03
mioc2561	4M	3.17e-06		ncrc0090	4M	1.185916e-03
fcrc3993	4M	4.37e-06		hfcr6406	4M	1.239885e-03
seoa6032	4M	5.48e-06		ncr4539	4M	1.309997e-03
miod534 9	4M	6.31e-06		seoa1844	4M	1.345317e-03
seoa8894	4M	1.1e-05		mioc2348	4M	1.386736e-03
seob2697	4M	1.66e-05		miod6038	4M	1.395436e-03
ncr3751	4M	1.95e-05		ncr7753	4M	1.444958e-03
ncr7668	4M	4.63e-05		seob6486	4M	1.458125e-03
fcrb3578	4M	4.7e-05		fcr3101	4M	1.487316e-03
miod7421	4M	6.08e-05		ncrb3001	4M	1.557302e-03
mioa1370	4M	8.87e-05		miod1 811	4M	1.590472e-03
mioc8410	4M	9.18e-05		seoa9740	4M	1.598061e-03
seoa9482	4M	9.27e-05		mioa3080	4M	1.603678e-03
fcrb7339	4M	9.87e-05		mioa0494	4M	1.619093e-03
fcr4477	4M	1.01e-04		mioc6075	4M	1.640004e-03
fcrb0265	4M	1.2e-04		ncrc1367	4M	1.650171e-03
seob6189	4M	1.32e-04		mioa1015	4M	1.68644e-03
miod7414	4M	1.36e-04		seob0304	4M	1.693307e-03
ncr3262	4M	1.4e-04		seob6853	4M	1.718429e-03
fcr0253	4M	1.45e-04		fcrb3165	4M	1.760242e-03
ncr0223	4M	1.5e-04		seoa1598	4M	1.770719e-03
seob6851	4M	1.55e-04		fcrc5516	4M	1.799844e-03
fcrb34 61	4M	1.6e-04		fcrb8940	4M	1.834572e-03
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fcr4582	4M	2.27e-04		ncrc9729	4M	1.919544e-03
fcrc1381	4M	2.28e-04		seoc4380	4M	1.956915e-03
seob0065	4M	2.35e-04		miod0592	4M	1.985622e-03
seoc0999	4M	2.44e-04		ncr5397	4M	2.00365e-03
mioc2726	4M	2.7e-04		seob4560	4M	2.021887e-03
mioc6260	4M	2.92e-04		mioc0824	4M	2.034483e-03
fcrc0112	4M	3.06e-04		mioc1107	4M	2.070013e-03
ncr1631	4M	3.07e-04		fcrb9843	4M	2.120966e-03
ncrb8714	4M	3.16e-04		fcrc6916	4M	2.121527e-03
seoa2949	4M	3.29e-04		miod2525	4M	2.174809e-03
fcr5779	4M	4.02e-04		fcrb2624	4M	2.174826e-03
miob7 922	4M	4.07e-04		fcr3121	4M	2.234303e-03
fcrb7830	4M	4.09e-04		fcrc0695	4M	2.279562e-03
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mioa1976	4M	2.452224e-03	ncrb1398	4M	5.295501e-03
fcrc5142	4M	2.464685e-03	miod3854	4M	5.307923e-03
seoa3670	4M	2.543649e-03	miod3254	4M	5.326719e-03
ncrc1578	4M	2.579378e-03	mioc8619	4M	5.353299e-03
miod4332	4M	2.601957e-03	ncrc9758	4M	5.427537e-03
ncrc5061	4M	2.618499e-03	ncr9429	4M	5.458161e-03
seoc0369	4M	2.638551e-03	mioc0222	4M	5.512684e-03
fcrb4409	4M	2.722505e-03	fcrc6560	4M	5.571911e-03
fcr0999	4M	2.730498e-03	mioa3471	4M	5.716154e-03
mioc3962	4M	2.824707e-03	fcrb5164	AM	5.814619e-03
seob4545	4M	2.842281e-03	seoa4524	4M	5.958281e-03
fcrb4391	4M	2.852331e-03	fcr5536	4M	6.049129e-03
mioa7140	4M	2.898369e-03	ncrc0663	4M	6.085718e-03
ncrc6359	4M	2.898846e-03	mioc7444	4M	6.13308e-03
ncrc3464	4M	2.965232e-03	ncrc0342	4M	6.197336e-03
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seob9649	4M	2.997767e-03	ncrb1337	4M	6.21911e-03
seoa6304	4M	3.095502e-03	ncrb1515	4M	6.341156e-03
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mioa2374	4M	3.293401e-03	seob0703	4M	6.50097e-03
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miob8274	4M	3.404337e-03	mioc2166	4M	6.609859e-03
miob9065	4M	3.456747e-03	ncr4545	4M	6.618737e-03
seob4972	4M	3.531512e-03	mioa1303	4M	6.633139e-03
seob2797	4M	3.6022e-03	ncr7631	4M	6.713476e-03
seoa1749	4M	3.637644e-03	fcrb8536	4M	6.791086e-03
ncr0451	4M	3.707725e-03	hfcr5987	4M	6.867295e-03
fcr6018	4M	3.762242e-03	ncr9956	,M	6.920421e-03
seoa1480	4M	3.790975e-03	ncr0240	4M	6.999641e-03
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fcr3155	4M	3.832262e-03	hfcr1914	4M	7.057729e-03
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seoa6573	4M	3.875968e-03	mioa6093	4M	7.268139e-03
seob0200	4M	3.979023e-03	seob6560	4M	7.500236e-03
ncrc5492	4M	4.081573e-03	mioc6925	4M	7.512586e-03
mioc0741	4M	4.154883e-03	ncrc3936	4M	7.54805e-03
ncrc4531	4M	4.208322e-03	ncrc6087	4M	7.662274e-03
miod4140	4M	4.240281e-03	hfcr0517	4M	7.704251e-03
mioc0567	4M	4.279318e-03	fcrb9655	4M	7.792172e-03
mioc3716	4M	4.281847e-03	seob6177	4M	7.843092e-03
fcrb84 67	4M	4.415815e-03	miob7309	4M	8.045055e-03
mioc0347	4M	4.417094e-03	fcrc0295	4M	8.130412e-03
fcrc0959	4M	4.530274e-03	fcr4965	4M	8.164022e-03
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fcr0707	4M	4.772856e-03	hfcr5737	4M	8.332211e-03
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fcrb2310	4M	5.087043e-03	miob1506	4M	8.830271e-03
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fcrb6220	4M	9.620246e-03	ncrb5737	4M	0.01
fcrc5846	4M	9.622113e-03	ncrc3453	4M	0.01
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miod6961	4M	0.01	miod5123	4M	0.01
fcrb7808	4M	0.01	hfcr4423	4M	0.01
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mioa2213	4M	0.01	seob7764	4M	0.01
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ncrc6171	4M	0.01	miob7 607	4M	0.01
seoa7094	4M	0.01	miod068 6	4M	0.01

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fcrb4294	4M	0.01	seob8873	4M	0.02
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mioc0940	4M	0.01	mioc2219	4M	0.02
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seoa4518	4M	0.01	fcrc5721	4M	0.02
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seoa2962	4M	0.02	seoc0416	4M	0.02
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seob3533	4M	0.02	mioc3208	4M	0.02
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seocl264	4M	0.02	seoc2144	4M	0.02
miob2116	4M	0.02	ncrb8751	4M	0.02
fcr6967	4M	0.02	miob3594	4M	0.02
fcrb2704	4M	0.02	miob4876	4M	0.02
miob3396	4M	0.02	fcrc6228	4M	0.02
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ncrc0292	4M	0.02	mioa4738	4M	0.02
fcrcl763	4M	0.02	ncrb8248	4M	0.02
fcrb3010	4M	0.02	ncr5557	4M	0.02
ncrc7043	4M	0.02	ncrc0583	4M	0.02
hfcr4007	4M	0.02	mioa5836	4M	0.03
miod4857	4M	0.02	fcrb6747	4M	0.03
mioal062	4M	0.02	mioc7339	4M	0.03
mioc5307	4M	0.02	hfcr0734	4M	0.03
fcrb4360	4M	0.02	fcr4433	4M	0.03
fcr5618	4M	0.02	seob7946	4M	0.03
fcr0027	4M	0.02	mioc2950	4M	0.03
seob7622	4M	0.02	miod6234	4M	0.03
seoa3752	4M	0.02	fcrbl556	4M	0.03
hfcr6366	4M	0.02	ncr8995	4M	0.03
mioal058	4M	0.02	seobl770	4M	0.03
fcrbl528	4M	0.02	miob3531	4M	0.03
fcrcl965	4M	0.02	mioc2451	4M	0.03
mioc0052	4M	0.02	miob5810	4M	0.03
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ncrl344	4M	0.02	mioc8694	4M	0.03
mioa3940	4M	0.02	fcrc6970	4M	0.03
fcr6534	4M	0.02	miob5699	4M	0.03
fcrb4252	4M	0.02	ncr4140	4M	0.03
ncr3968	4M	0.02	fcrb5438	4M	0.03
seob2163	4M	0.02	mioc2110	4M	0.03
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fcrb5603	4M	0.02	mioa2818	4M	0.03

seob7981	4M	0.03	mioa2072	40	3.26e-06
ncr3404	4M	0.03	seob4303	40	3.35e-06
fcrb4016	4M	0.03	seob5523	40	4.23e-06
seob0885	4M	0.03	seoa4461	40	5.29e-06
ncr2861	4M	0.03	miod5349	40	6.31e-06
fcrb2306	4M	0.03	ncr3751	40	1.95e-05
mioa2038	4M	0.03	ncrcO729	40	5.77e-05
miob4090	4M	0.03	mioa3963	40	6.04e-05
hfcr2584	4M	0.03	ncr2472	40	6.28e-05
ncr0045	4M	0.03	seoa9373	40	6.54e-05
mioc7360	4M	0.03	mioa3913	40	7.5e-05
fcrb4219	4M	0.03	seoa0032	40	8.0e-05
mioc6385	4M	0.03	mioal370	40	8.87e-05
mioc4504	4M	0.03	seocll75	40	1.16e-04
mioa3620	4M	0.03	miob6881	40	1.44e-04
mioal380	4M	0.03	fcrO253	40	1.45e-04
ncrb8239	4M	0.03	seoa7652	40	1.5e-04
miob0361	4M	0.03	seob3313	40	1.51e-04
ncrcl615	4M	0.03	seob6851	40	1.55e-04
fcrb3083	4M	0.03	seoc4960	40	1.55e-04
ncrc4000	4M	0.04	mioa4009	40	1.63e-04
ncr3934	4M	0.04	miod5894	40	1.73e-04
miob9284	4M	0.04	fcrb2704	40	1.74e-04
seob0122	4M	0.04	miod5651	40	1.77e-04
ncr2269	4M	0.04	hfcr2390	40	1.83e-04
miod2635	4M	0.04	ncrc9280	40	1.93e-04
ncrb0027	4M	0.04	mioal015	40	2.07e-04
miobl746	4M	0.04	seoc2264	40	2.1e-04
fcrb5177	4M	0.04	fcr7587	40	2.15e-04
fcrb9390	4M	0.04	fcr4582	40	2.27e-04
fcrb7036	4M	0.04	miob0167	40	2.32e-04
hfcr5522	4M	0.04	mioa8970	40	2.35e-04
seoa8239	4M	0.04	hfcrlO73	40	2.54e-04
mioc4131	4M	0.04	fcrc0075	40	2.58e-04
fcrb6818	4M	0.04	mioc6260	40	2/92e-04
ncrc5758	4M	0.04	seob6467	40	3.03e-04
miob6595	4M	0.04	ncrO153	40	3.07e-04
mioal947	4M	0.04	ncrb8714	40	3.16e-04
seoa3443	4M	0.04	seoa0486	40	3.23e-04
ncrl437	4M	0.04	ncr6232	40	3.38e-04
ncrc5738	4M	0.04	ncrc5417	40	3.79e-04
seobl420	4M	0.04	seob3854	40	3,91e-04
seoc5285	4M	0.04	fcrO224	40	4.62e-04
seoa0174	4M	0.04	seobl319	40	4.91e-04
fcrb2346	4M	0.04	ncrc5663	40	5.0e-04
mioal294	4M	0.04	mioc2602	40	5.18e-04
mioc3618	4M	0.04	ncrc4757	40	5.23e-04
seob6582	4M	0.04	fcr3664	40	5.26e-04
seob6198	4M	0.04	seob9145	40	6.11e-04
seoc5627	4M	0.04	fcrc3750	40	6.22e-04
fcr0860	4M	0.04	fcrc6826	40	6.39e-04
seoa0137	4M	0.04	ncrb2266	40	6.45e-04
ncrcO7O4	4M	0.04	fcr2573	40	6.62e-04
miod5126	4M	0.04	mioa2537	40	6.62e-04
mioa8536	4M	0.04	fcrc3009	40	6.69e-04
miob9248	4M	0.04	ncrcl643	40	6.73e-04
fcrb5639	4M	0.04	fcrb9588	40	6.74e-04
seoa0740	4M	0.04	mioa6418	40	7.09e-04
fcr5930	4M	0.04	miob0865	40	7.17e-04
mioc4696	4M	0.04	mioc7362	40	7.52e-04
miod2412	4M	0.04	ncrb4039	40	7.64e-04
seobl972	4M	0.04	seob3303	40	7.67e-04
fcrb2080	4M	0.04	mioa4484	40	7.8e-04
ncr3163	40	2.24e-06	seob9574	40	7.88e-04

ncrb0513	40	8.14e-04		ncrc6592	40	2.352328e-03
miob8320	40	8.21e-04		miob8143	40	2.489145e-03
seoa8979	40	8.23e-04		seoal173	40	2.502414e-03
hfcr0478	40	8.43e-04		ncrb6087	40	2.508309e-03
hfcr5220	40	8.48e-04		fcr3121	40	2.565184e-03
mioa5355	40	8.58e-04		seocl230	40	2.583324e-03
fcr0824	40	8.62e-04		fcrb7981	40	2.62789e-03
ncrc9784	40	8.77e-04		ncrc3408	40	2.651987e-03
seoa7509	40	9.42e-04		fcr7004	40	2.657357e-03
seoa8348	40	9.56e-04		mioc8434	40	2.661058e-03
fcrb9420	40	9.64e-04		miobl946	40	2.682567e-03
seob8501	40	9.81e-04		mioc3332	40	2.68477e-03
fcrb7240	40	1.015969e-03		seoa6923	40	2.71229e-03
seob2936	40	1.039004e-03		seoa0563	40	2.731117e-03
seob9292	40	1.045712e-03		seoc0513	40	2.753054e-03
miob8572	40	1.097548e-03		fcrb5254	40	2.802941e-03
ncr3713	40	1.150048e-03		seobl316	40	2.802941e-03
miob9336	40	1.178419e-03		seob8104	40	2.802941e-03
seob8368	40	1.179921e-03		miob8711	40	2.809832e-03
hfcr6700	40	1.205756e-03		mioa9033	40	2.817963e-03
miob4 956	40	1.21517e-03		seoa7546	40	2.919393e-03
hfcr640 β	40	1.239885e-03		fcrbl731	40	2.954229e-03
mioa0909	40	1.312146e-03		fcrb3483	40	2.983789e-03
ncrc9304	40	1.328255e-03		fcrb2933	40	3.049655e-03
miod6038	40	1.395436e-03		mioa0890	40	3.084414e-03
fcrb2484	40	1.447281e-03		seoa5683	40	3.160612e-03
mioa6721	40	1.457877e-03		fcrb2218	40	3.164316e-03
seoa3516	40	1.46015e-03		mioa0187	40	3.279663e-03
hfcrl310	40	1.478083e-03		mioa2374	40	3.293401e-03
fcrb9959	40	1.48762e-03		seob8741	40	3.317878e-03
ncrb3001	40	1.557302e-03		ncrb3942	40	3.332792e-03
miob3308	40	1.566301e-03		ncrb0145	40	3.359507e-03
miodl811	40	1.590472e-03		fcrb3017	40	3.376066e-03
hfcr3500	40	1.610297e-03		ncrc9023	40	3.400776e-03
mioa0494	40	1.619093e-03		miob8274	40	3.404337e-03
seoa0111	40	1.622252e-03		miob9065	40	3.456747e-03
seoal118	40	1.653668e-03		fcrb4378	40	3.540302e-03
seoa4305	40	1.678116e-03		mioc3726	40	3.550472e-03
miob4221	40	1.682038e-03		mioc0950	40	3.586197e-03
seob2185	40	1.70771e-03		miod5672	40	3.586197e-03
seoa9870	40	1.728369e-03		seob2797	40	3.6022e-03
ncrc9469	40	1.762334e-03		seobl667	40	3.640309e-03
seoal598	40	1.770719e-03		hfcr0676	40	3.735778e-03
fcrb8940	40	1.834572e-03		mioa8774	40	3.812303e-03
seobl513	40	1.842974e-03		fcr3155	40	3.832262e-03
seoc4380	40	1.956915e-03		seoa6573	40	3.875968e-03
miod0592	40	1.985622e-03		fcrb2350	40	3.883582e-03
hfcr0415	40	1.99746e-03		fcrb6785	40	3.927728e-03
miod0340	40	2.021229e-03		miod7243	40	3.934025e-03
seob4560	40	2.021887e-03		seob0200	40	3.979023e-03
seocl025	40	2.02575e-03		seoa2442	40	4.093483e-03
seob0201	40	2.050861e-03		seob3869	40	4.093483e-03
fcr5470	40	2.060807e-03		seoa2641	40	4.10684e-03
fcr4782	40	2.115262e-03		seoa5554	40	4.201202e-03
fcrb9843	40	2.120966e-03		fcrb9694	40	4.20251e-03
fcrb6187	40	2.177878e-03		ncrc4531	40	4.208322e-03
mioa8851	40	2.23281e-03		mioc0567	40	4.279318e-03
fcr7419	40	2.260166e-03		mioc3716	40	4.281847e-03
fcrc0695	40	2.279562e-03		mioc0630	40	4.288784e-03
ncrcll03	40	2.30949e-03		fcrl657	40	4.312428e-03
fcrc6119	40	2.31135e-03		ncr7 973	40	4.312428e-03
seob5743	40	2.31135e-03		mioa2475	40	4.318525e-03
seoal065	40	2.312579e-03		seoa9711	40	4.329889e-03
miod64 67	40	2.34447e-03		miob8226	40	4.470203e-03

mioa8811	40	4.52055e-03	ncrc6712	40	6.41394e-03
seob3154	40	4.531125e-03	seoc0394	40	6.498391e-03
ncrc5760	40	4.601184e-03	ncrb8343	40	6.552284e-03
mioal427	40	4.633362e-03	mioa9581	40	6.573012e-03
ncrc3840	40	4.633362e-03	seoa5911	40	6.597064e-03
seoa2978	40	4.686163e-03	mioal303	40	6.633139e-03
fcrc7047	40	4.744327e-03	seob4191	40	6.654737e-03
ncrb4 912	40	4.752707e-03	seoal559	40	6.671142e-03
fcr0707	40	4.772856e-03	fcrb27 65	40	6.689668e-03
mioa6739	40	4.778158e-03	ncr4384	40	6.700762e-03
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miob4 673	40	4.802836e-03	seob9552	40	6.762169e-03
seob3151	40	4.834042e-03	fcrb3841	40	6.780973e-03
mioa0826	40	4.884238e-03	seoal529	40	6.829367e-03
fcrb4415	40	4.898061e-03	hfcrl760	40	6.835569e-03
seob0185	40	4.919496e-03	miod6560	40	6.859782e-03
xioa9831	40	4.946737e-03	seoa0926	40	6.867921e-03
ncrb8207	40	5.048159e-03	miod307 9	40	6.91873e-03
fcrb4579	40	5.048574e-03	fcrb8852	40	6.991416e-03
seoa0501	40	5.071997e-03	ncrc4600	40	7.01528e-03
fcrc0430	40	5.084925e-03	hfcrl914	40	7.057729e-03
ncrc5500	40	5.175143e-03	miob0636	40	7.05796e-03
hfcr5009	40	5.200779e-03	fcrb9751	40	7.132232e-03
fcrb4241	40	5.25156e-03	fcrb8908	40	7.17729e-03
fcrc6563	40	5.282794e-03	fcr5339	40	7.199684e-03
fcr0768	40	5.301658e-03	ncr3948	40	7.237837e-03
miod57 03	40	5.307234e-03	miod6213	40	7.325332e-03
seob8092	40	5.307234e-03	seobl191	40	7.325599e-03
miod3254	40	5.326719e-03	seoc3993	40	7.378389e-03
seoa5396	40	5.362874e-03	ncr3035	40	7.454459e-03
mioc2074	40	5.414445e-03	seoa7078	40	7.471779e-03
miocl609	40	5.451025e-03	seob6560	40	7.500236e-03
seobl318	40	5.452083e-03	mioc6925	40	7.512586e-03
seob0031	40	5.509288e-03	fcrc6642	40	7.539399e-03
seob5726	40	5.548229e-03	miod6162	40	7.584327e-03
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seoa0219	40	5.585447e-03	miob457 4	40	7.632732e-03
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fcr3282	40	5.608041e-03	seocl898	40	7.715363e-03
mioa2158	40	5.639619e-03	seob7729	40	7.786058e-03
mioa9630	40	5.670246e-03	seob6177	40	7.843092e-03
ncrc3468	40	5.832748e-03	seoa0913	40	7.91186e-03
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fcrl496	40	5.876385e-03	miob8812	40	7.917348e-03
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seoal552	40	5.896449e-03	mioc7998	40	7.939586e-03
fcrl844	40	5.913324e-03	seob9872	40	7.94076e-03
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miob3684	40	5.971717e-03	hfcr5905	40	8.045743e-03
fcr5536	40	6.049129e-03	miob2227	40	8.045772e-03
seoc2131	40	6.08684e-03	hfcr6501	40	8.058052e-03
fcr0608	40	6.096137e-03	fcrbl329	40	8.164602e-03
mioc7444	40	6.13308e-03	fcrc5160	40	8.176648e-03
seoa3704	40	6.146625e-03	ncrc9483	40	8.178505e-03
miod5612	40	6.180534e-03	fcr4129	40	8.215271e-03
mioa4057	40	6.188583e-03	seoc2220	40	8.240295e-03
ncrb6833	40	6.229488e-03	fcrb6676	40	8.311707e-03
ncrc2635	40	6.269334e-03	fcrc2678	40	8.311707e-03
mioa2013	40	6.287512e-03	ncrb6192	40	8.312148e-03
seob9485	40	6.301111e-03	seoa4070	40	8.351138e-03
fcrc6174	40	6.350026e-03	seoall04	40	8.378822e-03
ncr8811	40	6.352352e-03	ncrc4089	40	8.390818e-03

seoa8232	40	8.450517e-03	fcr0990	40	0.01
seob8065	40	8.459463e-03	mioc5103	40	0.01
seob4972	40	8.59936e-03	fcrc0350	40	0.01
hfcrl795	40	8.723061e-03	miob8627	40	0.01
ncrc4079	40	8.723061e-03	fcrb5100	40	0.01
ncrl282	40	8.738728e-03	ncr5781	40	0.01
seob6026	40	8.755905e-03	hfcr2148	40	0.01
seocl234	40	8.859639e-03	fcrcβ011	40	0.01
fcrcl834	40	8.876728e-03	seob3887	40	0.01
fcrbl503	40	8.94593e-03	mioa6135	40	0.01
seocl023	40	8.957311e-03	seobl916	40	0.01
mioa3629	40	8.97697e-03	fcrb3135	40	0.01
mioa0707	40	9.037843e-03	miod4464	40	0.01
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ncrcO667	40	9.054835e-03	miob5412	40	0.01
ncrc9428	40	9.100754e-03	seoa2141	40	0.01
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seoa5933	40	9.204501e-03	hfcr5237	40	0.01
seoa2391	40	9.263207e-03	fcrb5422	40	0.01
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ncrcOlOl	40	9.315893e-03	fcrb8653	40	0.01
miob5855	40	9.472774e-03	ncr3037	40	0.01
mioc8619	40	9.511612e-03	mioa4064	40	0.01
ncr8199	40	9.599163e-03	seoa7478	40	0.01
seoa6070	40	9.602104e-03	fcrc6990	40	0.01
ncrcl87 3	40	9.678381e-03	mioc3603	40	0.01
ncrc2780	40	9.75612e-03	mioa5773	40	0.01
mioa6035	40	9.789009e-03	ncr0491	40	0.01
ncr9337	40	9.841178e-03	fcrb6185	40	0.01
miocl248	40	9.846887e-03	seob9882	40	0.01
seob8817	40	9.894482e-03	seob6368	40	0.01
fcrbl578	40	9.906745e-03	seob7 637	40	0.01
ncrc6382	40	9.927817e-03	ncrc3529	40	0.01
ncrc4226	40	9.989082e-03	mioc3958	40	0.01
miob8214	40	0.01	fcrb9481	40	0.01
mioc4366	40	0.01	ncrc5806	40	0.01
ncr6141	40	0.01	fcrcO496	40	0.01
seobl420	40	0.01	fcrb3704	40	0.01
fcr5354	40	0.01	ncrc5653	40	0.01
miob6797	40	0.01	fcrb2460	40	0.01
seobl574	40	0.01	mioal062	40	0.01
fcr2418	40	0.01	seob4805	40	0.01
ncrc4247	40	0.01	seobll33	40	0.01
seob3520	40	0.01	miob0496	40	0.01
hfcr4055	40	0.01	miodl714	40	0.01
hfcr6509	40	0.01	fcrbO146	40	0.01
ncrb0033	40	0.01	miob8373	40	0.01
fcr0903	40	0.01	fcrb4388	40	0.01
miob8992	40	0.01	mioc2694	40	0.01
mioa9792	40	0.01	miod6961	40	0.01
seob9847	40	0.01	mioc0560	40	0.01
mioa2333	40	0.01	seoc5228	40	0.01
fcrb8623	40	0.01	mioa5097	40	0.01
mioa7015	40	0.01	seoc0312	40	0.01
miob2743	40	0.01	fcr4885	40	0.01
mioa6585	40	0.01	miob9848	40	0.01
miob7391	40	0.01	ncrcl050	40	0.01
mioal394	40	0.01	seoa2830	40	0.01
fcrb5527	40	0.01	ncr4452	40	0.01
seob3699	40	0.01	seoc4909	40	0.01
ncrb8451	40	0.01	ncrc5592	40	0.01
fcrO511	40	0.01	mioa4014	40	0.01
fcrb3584	40	0.01	fcrb3897	40	0.01

mioa9093	40	6".6i	ncrb0328	40	0.01
seob0344	40	0.01	fcrb4739	40	0.01
hfcr2850	40	0.01	fcrb2754	40	0.01
fcrc4045	40	0.01	seob2011	40	0.01
fcrb5675	40	0.01	seoc0657	40	0.01
seoa8566	40	0.01	hfcr2832	40	0.01
mioc8016	40	0.01	seoa3422	40	0.01
seoa7157	40	0.01	seob3464	40	0.01
fcrc6854	40	0.01	ncrc6708	40	0.01
ncr2035	40	0.01	seoa2381	40	0.01
ncrc2685	40	0.01	fcrb6251	40	0.01
miob9228	40	0.01	ncr8067	40	0.01
miob7373	40	0.01	seob9543	40	0.01
mioa2421	40	0.01	seoa2272	40	0.01
miocl085	40	0.01	fcrb6698	40	0.01
miod6238	40	0.01	seoc2646	40	0.01
seob0523	40	0.01	fcrb4995	40	0.01
seob6576	40	0.01	seoa0469	40	0.01
fcrb6432	40	0.01	seoa2817	40	0.01
fcrcl758	40	0.01	fcrb2020	40	0.01
fcr0997	40	0.01	fcrb2305	40	0.01
fcrc0559	40	0.01	seoa8300	40	0.01
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miob2687	40	0.01	ncrb34 68	40	0.01
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ncrb5264	40	0.01	ncrb8665	40	0.01
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fcrb8119	40	0.01	miob9185	40	0.01
seobl646	40	0.01	mioc0140	40	0.01
miod7351	40	0.01	ncrcl176	40	0.01
seob2938	40	0.01	ncr8538	40	0.01
fcrb9714	40	0.01	seob5592	40	0.01
miod0187	40	0.01	miob04 68	40	0.01
ncrb87 90	40	0.01	seob9480	40	0.01
mioa8998	40	0.01	ncr4550	40	0.01
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seob4570	40	0.01	mioc3220	40	0.01
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fcrb4542	40	0.01	ncrc2859	40	0.01
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hfcr3413	40	0.01	ncrc4033	40	0.01
miob0973	40	0.01	mioa0152	40	0.01
hfcrl709	40	0.01	ncrb7102	40	0.01
fcr5222	40	0.01	ncr0808	40	0.01
seoc3870	40	0.01	seob9334	40	0.01
fcrb2353	40	0.01	hfcrl641	40	0.01

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seoa5578	40	0.01		seoa3093	40	0.02
fcrb9856	40	0.01		miob3928	40	0.02
miod6044	40	0.01		ncr7666	40	0.02
mioc4983	40	0.01		seoa1979	40	0.02
fcrb4696	40	0.01		ncr7672	40	0.02
seob5773	40	0.01		fcrb7487	40	0.02
fcrb6693	40	0.01		seob2807	40	0.02
ncrc9024	40	0.01		fcrc4390	40	0.02
fcrb9639	40	0.01		hfcr3404	40	0.02
fcrb4294	40	0.01		fcrb2308	40	0.02
πdoa1520	40	0.01		miod3302	40	0.02
mioa4628	40	0.01		fcrb2160	40	0.02
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miod2707	40	0.01		fcrc1763	40	0.02
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mioc4766	40	0.02		miob9209	40	0.02
seob3533	40	0.02		seob8807	40	0.02
miob4712	40	0.02		seob4030	40	0.02
seoc3965	40	0.02		miob0178	40	0.02
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seoc4052	40	0.02		seob4492	40	0.02
mioa0647	40	0.02		fcrb4921	40	0.02
seob6041	40	0.02		ncrb0074	40	0.02
seob4192	40	0.02		ncrb8220	40	0.02
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miob8 657	40	0.02		fcrb2330	40	0.02
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ncrb4319	40	0.02		ncrc6439	40	0.02
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fcrc4037	40	0.02		mioa5614	40	0.02
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seob2163	40	0.02	fcrc2131	40	0.02
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fcrb3086	40	0.02	seoa8640	40	0.02
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fcrb6734	40	0.02	seoa3556	40	0.02
seoa6658	40	0.02	fcr4128	40	0.02
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fcr1772	40	0.02	mioc7260	40	0.02
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fcrc5504	40	0.02	fcrb2715	40	0.03
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fcrb8226	40	0.02	fcrc6413	40	0.03
seob6872	40	0.02	fcrb6747	40	0.03
mioc2219	40	0.02	seoc2173	40	0.03
fcrc5721	40	0.02	ncr3705	40	0.03
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fcrb2430	40	0.02	fcrb2208	40	0.03
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seob6153	40	0.02	seoa5721	40	0.03
mioc1808	40	0.02	seob3064	40	0.03
seoa9873	40	0.02	seoa8401	40	0.03
mioc0530	40	0.02	hfcr0476	40	0.03
seoa4023	40	0.02	seob2134	40	0.03
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seoa4158	40	0.02	fcr2798	40	0.03
fcrb1720	40	0.02	ncr3465	40	0.03
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mioa0684	40	0.02	fcrb3874	40	0.03
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seoa8229	40	0.02	ncrc5019	40	0.03
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fcrb3554	40	0.02	seoa9930	40	0.03

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ncrc2675	40	0.03	fcrb2090	40	0.03
fcrb5416	40	0.03	fcrb4248	40	0.03
fcrb2198	40	0.03	fcrb8740	40	0.03
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fcrb4719	40	0.03	seoa8916	40	0.04
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mioc2887	40	0.04		mioc7170	4Q	2.53e-06
seobl748	40	0.04		mioc2561	4Q	3.17e-06
fcrb3283	40	0.04		mioa2072	4Q	3.26e-06
fcrb7 944	40	0.04		seob4419	4Q	4.27e-06
fcr6708	40	0.04		fcrc3993	4Q	4.37e-06
mioa8946	40	0.04		seoa6032	4Q	5.48e-06
seoc5285	40	0.04		miod5349	4Q	6.31e-06
mioal584	40	0.04		seoa8894	4Q	1.1e-05
fcr4832	40	0.04		ncr3751	4Q	1.95e-05
fcrb3015	40	0.04		seoa4518	4Q	2.47e-05
miob3618	40	0.04		seoa8566	4Q	3.22e-05
miob8191	40	0.04		fcrb3578	4Q	4.7e-05
miocl357	40	0.04		seoa9373	4Q	6.54e-05
hfcr2890	40	0.04		mioal370	4Q	8.87e-05
seob4197	40	0.04		seoa9482	4Q	9.27e-05
ncr2304	40	0.04		fcr4477	4Q	1.01e-04
mioc2133	40	0.04		fcrb0265	4Q	1.2e-04
ncr7151	40	0.04		inioc2094	4Q	1.38e-04
ncrc9491	40	0.04		ncr3262	4Q	1.4e-04
fcr2861	40	0.04		ncr0223	4Q	1.5e-04
seob0818	40	0.04		fcrb2536	4Q	1.53e-04
fcrb2199	40	0.04		seob6851	4Q	1.55e-04
seoc3277	40	0.04		fcrb5850	4Q	1.56e-04
seocl058	40	0.04		miob8812	4Q	1.56e-04
seobl848	40	0.04		miod5651	4Q	1.77e-04
miod5126	40	0.04		hfcr2390	4Q	1.83e-04
ncrb3585	40	0.04		fcr4582	4Q	2.27e-04
fcrb2301	40	0.04		miob0167	4Q	2.32e-04
mioa9604	40	0.04		fcrc5937	4Q	2.36e-04
seoc0698	40	0.04		seoc0999	4Q	2.44e-04
fcrb8668	40	0.04		fcrc0554	4Q	2.48e-04
fcrc4663	40	0.04		hfcrl073	4Q	2.54e-04
mioal906	40	0.04		seob4191	4Q	2.69e-04
seoal802	40	0.04		mioc2726	4Q	2.7e-04
fcr5930	40	0.04		miob8 694	4Q	2.87e-04
seoa4264	40	0.04		seoa4053	4Q	3.03e-04
seob4999	40	0.04		fcrc0112	4Q	3.06e-04
miod6058	40	0.04		ncrl631	4Q	3.07e-04

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fcr2573	4Q	3.43e-04	miod5894	4Q	2.014527e-03
seob7584	4Q	3.63e-04	miod0340	4Q	2.021229e-03
fcr5779	4Q	4.02e-04	seob4560	4Q	2.021887e-03
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seoc6703	4Q	5.75e-04	miod2525	4Q	2.174809e-03
seob9145	4Q	6.11e-04	fcrb2624	4Q	2.174826e-03
mioa2537	4Q	6.62e-04	fcrb6187	4Q	2.177878e-03
mioa6418	4Q	7.09e-04	seoa0115	4Q	2.17824e-03
mioc7362	4Q	7.52e-04	seoc1906	4Q	2.1992e-03
seob9960	4Q	7.63e-04	fcr3121	4Q	2.234303e-03
seoa8388	4Q	7.64e-04	fcrc0695	4Q	2.279562e-03
fcrc6976	4Q	7.65e-04	fcrc6016	4Q	2.3165e-03
seob3303	4Q	7.67e-04	miob1326	4Q	2.329343e-03
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seoa8979	4Q	8.23e-04	miod6467	4Q	2.34447e-03
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mioa5355	4Q	8.58e-04	miob8143	4Q	2.489145e-03
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fcrc7102	4Q	8.87e-04	ncrc5061	4Q	.618499e-03
mioa6731	4Q	8.9e-04	seoc1402	4Q	2.660096e-03
fcrb2556	4Q	8.98e-04	seoc0276	4Q	2.725532e-03
mioc4667	4Q	9.01e-04	seob3307	4Q	2.811695e-03
miob7156	4Q	9.1e-04	seoa9814	4Q	2.836239e-03
fcrc3048	4Q	9.26e-04	seob4545	4Q	2.842281e-03
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seoc1996	4Q	9.81e-04	fcr0224	4Q	2.870823e-03
hfcr6486	4Q	9.83e-04	miob8146	4Q	2.888517e-03
hfcr5381	4Q	1.016874e-03	mioa7140	4Q	■.898369e-03
miod5310	4Q	1.129688e-03	ncrc3464	4Q	2.965232e-03
mioa3395	4Q	1.154329e-03	mioa0702	4Q	2.977964e-03
fcrb1539	4Q	1.177578e-03	seob9649	4Q	2.997767e-03
miob9336	4Q	1.178419e-03	seob2221	4Q	3.044324e-03
ncrc0090	4Q	1.185916e-03	mioa2185	4Q	3.147097e-03
hfcr6406	4Q	1.239885e-03	mioa3856	4Q	3.151528e-03
miod1942	4Q	1.305311e-03	seoa5683	4Q	3.160612e-03
ncr4539	4Q	1.309997e-03	mioa0187	4Q	3.279663e-03
seoa1844	4Q	1.345317e-03	mioa2374	4Q	3.293401e-03
mioc2880	4Q	1.356947e-03	fcr5075	4Q	3.353508e-03
mioc2348	4Q	1.386736e-03	ncrb0145	4Q	3.359507e-03
mioc6987	4Q	1.45158e-03	raiob8274	4Q	3.4043376-03
fcr3101	4Q	1.487316e-03	miob9065	4Q	3.456747e-03
ncr7595	4Q	1.511845e-03	fcrb2307	4Q	3.463155e-03
fcr4128	4Q	1.53383e-03	miob7290	4Q	3.492188e-03
ncrb3001	4Q	1.557302e-03	seob2797	4Q	3.6022e-03
fcrb8187	4Q	1.573331e-03	seoa1749	4Q	3.637644e-03
miod1811	4Q	1.590472e-03	ncr0451	4Q	3.707725e-03
mioa3080	4Q	1.603678e-03	fcr6018	4Q	3.762242e-03
mioc0052	4Q	1.624699e-03	seoa1480	4Q	3.790975e-03
miob9209	4Q	1.634228e-03	hfcr0370	4Q	3.8121e-03
ncrc1367	4Q	1.650171e-03	seoa6573	4Q	3.875968e-03
ncr5719	4Q	1.677652e-03	mioc7084	4Q	3.93591e-03
mioa1015	4Q	1.68644e-03	seob0200	4Q	3.979023e-03
seob6853	4Q	1.718429e-03	ncrc5492	4Q	4.081573e-03
fcrc2099	4Q	1.790284e-03	miod6018	4Q	4.139368e-03
seob1766	4Q	1.794891e-03	mioc0741	4Q	4.154883e-03
seob6506	4Q	1.826439e-03	ncrc4531	4Q	4.208322e-03
ncrc9729	4Q	1.919544e-03	miod4140	4Q	4.240281e-03
miod0592	4Q	1.985622e-03	fcrb9649	4Q	4.270145e-03

mioc05SV	4Q	4.279318e-03	mioa0249	4Q	7.184179e-03
fcrc0959	4Q	4.530274e-03	seoa9935	4Q	7.197022e-03
fcrb2318	4Q	4.630688e-03	ncrc6687	4Q	7.304834e-03
miod4 686	4Q	4.657868e-03	seobl191	4Q	7.325599e-03
seoa7129	4Q	4.719984e-03	miob4058	4Q	7.329008e-03
ncrb4 912	4Q	4.752707e-03	fcrb8542	4Q	7.350932e-03
ncr3369	4Q	4.770221e-03	fcr5723	4Q	7.369143e-03
fcr0707	4Q	4.772856e-03	seoc3993	4Q	7.378389e-03
mioa6739	4Q	4.778158e-03	seob6560	4Q	7.500236e-03
fcrb5438	4Q	4.92339e-03	mioc6925	4Q	7.512586e-03
mioa9831	4Q	4.946737e-03	ncrc3936	4Q	7.54805e-03
fcrb3192	4Q	4.985296e-03	miob4221	4Q	7.572537e-03
ncr3684	4Q	5.017654e-03	seob2169	4Q	7.634987e-03
seobl318	4Q	5.055898e-03	ncrc6087	4Q	7.662274e-03
fcrb8942	4Q	5.08231e-03	hfcr0517	4Q	7.704251e-03
fcrc0430	4Q	5.084925e-03	fcrb9655	4Q	7.792172e-03
miob8583	4Q	5.097523e-03	ncrc4226	4Q	7.824984e-03
ncrc5672	4Q	5.11611e-03	seob6177	4Q	7.843092e-03
miob6364	4Q	5.172374e-03	mioc7998	4Q	7.939586e-03
ncrc5500	4Q	5.175143e-03	miob7309	4Q	8.045055e-03
seob3204	4Q	5.176722e-03	fcrc0295	4Q	8.130412e-03
ncr3313	4Q	5.18529e-03	miod2665	4Q	8.152135e-03
miod2639	4Q	5.218734e-03	miobl493	4Q	8.197903e-03
miod3592	4Q	5.253602e-03	fcr0593	4Q	8.19812e-03
fcrc6563	4Q	5.282794e-03	ncrb3077	4Q	8.265993e-03
miod3854	4Q	5.307923e-03	hfcr5737	4Q	8.332211e-03
miod3254	4Q	5.326719e-03	seoa4070	4Q	8.351138e-03
fcrc1745	4Q	5.32716e-03	fcrbl684	4Q	8.355442e-03
ncrc9758	4Q	5.427537e-03	ncrc6264	4Q	8.530558e-03
fcr0990	4Q	5.490991e-03	ncrcl502	4Q	8.575665e-03
fcrb6650	4Q	5.525357e-03	fcr0770	4Q	8.634112e-03
fcrc2082	4Q	5.550695e-03	miobl506	4Q	8.830271e-03
fcrb7852	4Q	5.667225e-03	miodl331	4Q	8.912821e-03
fcr0253	4Q	5.72015e-03	mioa2413	4Q	9.000025e-03
fcrb5164	4Q	5.814619e-03	fcrb3894	4Q	9.03812e-03
fcrbl687	4Q	5.960627e-03	fcrb2299	4Q	9.0502e-03
fcrl883	4Q	6.048593e-03	miob3461	4Q	9.117224e-03
fcr5536	4Q	6.049129e-03	miodl574	4Q	9.196145e-03
ncrc0663	4Q	6.085718e-03	fcrb7339	4Q	9.198522e-03
fcr0608	4Q	6.096137e-03	seoa2391	4Q	9.263207e-03
ncrc0342	4Q	6.197336e-03	ncrc0l0l	4Q	9.315893e-03
ncrbl337	4Q	6.21911e-03	seoal737	4Q	9.470911e-03
ncrbl515	4Q	6.341156e-03	mioc4835	4Q	9.495048e-03
ncrc0139	4Q	6.437649e-03	fcrb6220	4Q	9.620246e-03
ncrc β000	4Q	6.444479e-03	fcrc5846	4Q	9.622113e-03
hfcr4176	4Q	6.494359e-03	fcr3367	4Q	9.80502e-03
seob0703	4Q	6.50097e-03	fcrb34 66	4Q	9.829055e-03
fcr4469	4Q	6.567393e-03	ncrc7038	4Q	9.905278e-03
mioc2166	4Q	6.609859e-03	mioc4022	4Q	9.984425e-03
mioal303	4Q	6.633139e-03	miob8214	4Q	0.01
fcrb9352	4Q	6.647947e-03	mioc4366	4Q	0.01
seob5500	4Q	6.672454e-03	miod4142	4Q	0.01
fcrb8536	4Q	6.791086e-03	fcrb2713	4Q	0.01
fcrcl607	4Q	6.799098e-03	fcrbl787	4Q	0.01
hfcrl760	4Q	6.835569e-03	mioa2580	4Q	0.01
hfcr5987	4Q	6.867295e-03	fcrb4988	4Q	0.01
ncr6335	4Q	6.907692e-03	seob3520	4Q	0.01
seoa4366	4Q	6.910667e-03	fcr0903	4Q	0.01
miod3079	4Q	6.91873e-03	miob4037	4Q	0.01
ncrc2495	4Q	6.966429e-03	mioa5692	4Q	0.01
ncrb8207	4Q	7.041692e-03	seob4036	4Q	0.01
ncrc6813	4Q	7.043646e-03	fcrl068	4Q	0.01
mioal427	4Q	7.073426e-03	mioa2993	4Q	0.01
seob7474	4Q	7.109226e-03	miob2743	4Q	0.01

mioc3618	4Q	0.01	ncr8290	4Q	0.01
fcrb5918	4Q	0.01	mioa9258	4Q	0.01
mioa5461	4Q	0.01	ncrc3258	4Q	0.01
ncrb8451	4Q	0.01	seoa0799	4Q	0.01
fcrb5100	4Q	0.01	fcrb3165	4Q	0.01
fcrb2818	4Q	0.01	mioa3646	4Q	0.01
miod7457	4Q	0.01	seoa0536	4Q	0.01
seob3887	4Q	0.01	miob6419	4Q	0.01
fcr2598	4Q	0.01	ncrc6861	4Q	0.01
seoa0003	4Q	0.01	fcrbl917	4Q	0.01
fcrb3135	4Q	0.01	seob7941	4Q	0.01
hfcr5970	4Q	0.01	mioa0595	4Q	0.01
miod4464	4Q	0.01	seobl783	4Q	0.01
fcrb3702	4Q	0.01	seoc3870	4Q	0.01
fcrb8432	4Q	0.01	fcrb7833	4Q	0.01
hfcr5237	4Q	0.01	fcrbl750	4Q	0.01
ncrc0304	4Q	0.01	seob0418	4Q	0.01
ncrc5930	4Q	0.01	ncrc0803	4Q	0.01
fcrb5422	4Q	0.01	mioal062	4Q	0.01
fcrb7588	4Q	0.01	miod5372	4Q	0.01
seob8693	4Q	0.01	fcrb7505	4Q	0.01
fcrbl202	4Q	0.01	seoa2272	4Q	0.01
ncrc5959	4Q	0..01	ncrb3341	4Q	0.01
seob6368	4Q	0..01	ncr9919	4Q	0.01
miob4673	4Q	0..01	seob8301	4Q	0.01
seoc2670	4Q	0..01	fcrb3497	4Q	0.01
mioa5691	4Q	0..01	miod5123	4Q	0.01
seobl133	4Q	0..01	seob3419	4Q	0.01
seoc2447	4Q	0..01	ncrc2859	4Q	0.01
fcrcl132	4Q	0.01	fcrc3229	4Q	0.01
mioc2541	4Q	0.01	seoall73	4Q	0.01
fcr2102	4Q	0.01	hfcr4423	4Q	0.01
miod6961	4Q	0.01	mioc6296	4Q	0.01
fcrb7808	4Q	0.01	mioc4730	4Q	0.01
mioa2213	4Q	0.01	miob7607	4Q	0.01
ncrc5592	4Q	0.01	fcrb2596	4Q	0.01
ncrc6171	4Q	0.01	fcr3575	4Q	0.01
mioa4014	4Q	0.01	seoa4727	4Q	0.01
fcr5509	4Q	0.01	seob6229	4Q	0.01
mioc7471	4Q	0.01	ncrbl956	4Q	0.01
seob3684	4Q	0.01	ncrc9024	4Q	0.01
miobl829	4Q	0.01	hfcr3011	4Q	0.01
seob5748	4Q	0.01	fcrb4294	4Q	0.01
seoa5552	4Q	0.01	mioa3799	4Q	0.01
ncrc3453	4Q	0.01	mioa6999	4Q	0.01
mioc8016	4Q	0.01	mioc0940	4Q	0.01
miob2492	4Q	0.01	seob5490	4Q	0.01
miod6041	4Q	0.01	miod0167	4Q	0.01
mioa2421	4Q	0.01	ncr3483	4Q	0.01
seob7747	4Q	0.01	seob2081	4Q	0.01
ncrc9517	4Q	0.01	ncr3432	4Q	0.01
seoa9729	4Q	0.01	fcrb8196	4Q	0.01
ncrc6617	4Q	0.01	miob4238	4Q	0.01
miod2264	4Q	0.01	fcrb7751	4Q	0.01
miob5119	4Q	0.01	fcr4795	4Q	0.01
seoa5235	4Q	0.01	fcrbl582	4Q	0.01
fcr0280	4Q	0.01	fcr7705	4Q	0.01
fcrb8901	4Q	0.01	ncr7876	4Q	0.02
mioa5231	4Q	0.01	seoa2962	4Q	0.02
seoc4748	4Q	0.01	miob3307	4Q	0.02
seob2938	4Q	0.01	ncr2013	4Q	0.02
mioa0891	4Q	0.01	seob3533	4Q	0.02
mioc7370	4Q	0.01	seob5551	4Q	0.02
mioc2039	4Q	0.01	ncrc4885	4Q	0.02

seoe4	4Q	0.02		fcrc2670	4Q	0.02
seob0763	4Q	0.02		ncrc1231	4Q	0.02
mioc8278	4Q	0.02		seoa8854	4Q	0.02
miob4570	4Q	0.02		ncrc1341	4Q	0.02
ncr4416	4Q	0.02		seoa8640	4Q	0.02
seoa8776	4Q	0.02		miob4876	4Q	0.02
seob1834	4Q	0.02		fcrc6228	4Q	0.02
seoa9389	4Q	0.02		fcr1724	4Q	0.02
mioa0601	4Q	0.02		fcr7042	4Q	0.02
mioc4270	4Q	0.02		mioa4738	4Q	0.02
seob0831	4Q	0.02		fcrb7951	4Q	0.03
seocl264	4Q	0.02		ncr3968	4Q	0.03
miob2116	4Q	0.02		seob4480	4Q	0.03
fcrb2704	4Q	0.02		fcrb2040	4Q	0.03
miob3396	4Q	0.02		ncr3237	4Q	0.03
fcr3043	4Q	0.02		hfcr0734	4Q	0.03
ncr0335	4Q	0.02		hfcr3500	4Q	0.03
ncrc0292	4Q	0.02		seob3064	4Q	0.03
fcrc4896	4Q	0.02		fcrb3946	4Q	0.03
hfcr4007	4Q	0.02		seoc0616	4Q	0.03
miob9533	4Q	0.02		seoc2172	4Q	0.03
ncrc6871	4Q	0.02		miocl596	4Q	0.03
mioc5307	4Q	0.02		fcr4433	4Q	0.03
fcrb3519	4Q	0.02		seob7946	4Q	0.03
fcr5618	4Q	0.02		mioa0862	4Q	0.03
fcr0027	4Q	0.02		miod6234	4Q	0.03
ncr2293	4Q	0.02		ncrb4441	4Q	0.03
ncrc6047	4Q	0.02		seoa7383	4Q	0.03
seob7622	4Q	0.02		ncr8995	4Q	0.03
seoc5780	4Q	0.02		ncr0429	4Q	0.03
ncrc9387	4Q	0.02		seoa2978	4Q	0.03
fcr3269	40	0.02		ncrc9633	4Q	0.03
hfcr6366	4Q	0.02		seoa1789	4Q	0.03
fcrb8719	4Q	0.02		miob3531	4Q	0.03
ncrc5491	4Q	0.02		mioc2451	4Q	0.03
fcrbl528	4Q	0.02		miob5810	4Q	0.03
fcrcl965	4Q	0.02		seoa8738	4Q	0.03
mioc2799	4Q	0.02		seoa0470	4Q	0.03
ncrc4586	4Q	0.02		fcr5369	4Q	0.03
seob2163	4Q	0.02		fcrb8664	4Q	0.03
ncrc9117	4Q	0.02		mioa5452	4Q	0.03
seob5624	4Q	0.02		ncrc4620	4Q	0.03
ncrcl687	4Q	0.02		mioa2818	4Q	0.03
hfcrl856	4Q	0.02		fcr0843	4Q	0.03
fcrb5393	4Q	0.02		mioa0497	4Q	0.03
fcr4634	4Q	0.02		ncrc6416	4Q	0.03
seob8873	4Q	0.02		miob9901	4Q	0.03
fcr2587	4Q	0.02		seob0885	4Q	0.03
hfcrl037	4Q	0.02		fcr5560	4Q	0.03
hfcr2295	4Q	0.02		ncr9664	4Q	0.03
seoa9699	4Q	0.02		fcrb2306	4Q	0.03
ncrb7292	4Q	0.02		ncrc9055	4Q	0.03
ncrb2798	4Q	0.02		fcrc0771	4Q	0.03
fcr3620	4Q	0.02		miob9581	4Q	0.03
fcrc4949	4Q	0.02		seob8355	4Q	0.03
seoa8912	4Q	0.02		ncr2175	4Q	0.03
fcrc6513	4Q	0.02		ncr0045	4Q	0.03
miod0894	4Q	0.02		mioc7360	4Q	0.03
mioc3208	4Q	0.02		fcrb2090	4Q	0.03
miob6610	4Q	0.02		fcrb4479	4Q	0.03
hfcr3494	4Q	0.02		mioal380	4Q	0.03
fcrb5439	4Q	0.02		fcr2196	4Q	0.03
seob8255	4Q	0.02		fcrc4876	4Q	0.03
fcrb4365	4Q	0.02		ncrl007	4Q	0.03

seoa904r	4Q	0.03		seoa6032	4S	5.48e-06
ncrc1615	4Q	0.03		miod534 9	4S	6.31e-06
fcrb3083	4Q	0.03		seoa8894	4S	1.1e-05
mioa2343	4Q	0.03		fcrb4534	4S	1.46e-05
ncrc4000	4Q	0.04		seob2697	4S	1.66e-05
ncr3934	4Q	0.04		seoa4518	4S	2.47e-05
miob9284	4Q	0.04		miob6562	4S	2.52e-05
fcr4984	4Q	0.04		seoa8566	4S	3.22e-05
ncr4538	4Q	0.04		miod5123	4S	5.49e-05
ncrb1833	4Q	0.04		seob4333	4S	5.73e-05
fcrb5177	4Q	0.04		miod7421	4S	6.08e-05
seob5465	4Q	0.04		mioa1370	4S	8.87e-05
fcrb8467	4Q	0.04		fcrb7339	4S	9.87e-05
hfcr5522	4Q	0.04		fcr4477	4S	1.01e-04
miob5752	4Q	0.04		fcrb0265	4S	1.2e-04
mioc4131	4Q	0.04		seob6189	4S	1.32e-04
ncrc6459	4Q	0.04		mioc2094	4S	1.38e-04
fcrb6818	4Q	0.04		fcr0253	4S	1.45e-04
seoa3121	4Q	0.04		seoa7652	4S	1.5e-04
miob6595	4Q	0.04		fcrb2536	4S	1.53e-04
miod0455	4Q	0.04		fcrb5850	4S	1.56e-04
seob0266	4Q	0.04		miob8812	4S	1.56e-04
seoa0860	4Q	0.04		fcrb3461	4S	1.6e-04
ncr0531	4Q	0.04		seob4029	4S	1.69e-04
fcrc1019	4Q	0.04		miod5651	4S	1.77e-04
ncrc4875	4Q	0.04		seob5748	4S	1.79e-04
ncrc5738	4Q	0.04		hfcr2390	4S	1.83e-04
ncrc0217	4Q	0.04		miod5505	4S	1.89e-04
fcrb3283	4Q	0.04		seoc2264	4S	2.1e-04
hfcr6515	4Q	0.04		fcr4582	4S	2.27e-04
mioc4086	4Q	0.04		fcrc1381	4S	2.28e-04
seob6582	4Q	0.04		miob0167	4S	2.32e-04
ncrc9039	4Q	0.04		seoc1175	4S	2.33e-04
ncr0132	4Q	0.04		fcrc5937	4S	2.36e-04
fcr6181	4Q	0.04		fcrc0554	4S	2.48e-04
miob2668	4Q	0.04		seob4191	4S	2.69e-04
seob3394	4Q	0.04		miob8694	4S	2.87e-04
miod5126	4Q	0.04		ncr0153	4S	3.07e-04
miod6731	4Q	0.04		seoa4366	4S	3.08e-04
seoa0792	4Q	0.04		seoc6169	4S	3.11e-04
miob9248	4Q	0.04		ncrb8714	4S	3.16e-04
ncr2591	4Q	0.04		fcr2573	4S	3.43e-04
fcrb5639	4Q	0.04		fcrb3578	4S	3.7e-04
fcr5930	4Q	0.04		fcr5779	4S	4.02e-04
seoa4606	4Q	0.04		ncrc5663	4S	5.0e-04
mioc4696	4Q	0.04		mioc2602	4S	5.18e-04
fcr7518	4Q	0.04		seoc6703	4S	5.75e-04
fcrb7880	4Q	0.04		fcr2607	4S	5.84e-04
ncrc1751	4Q	0.04		seoa4739	4S	5.91e-04
miod2412	4Q	0.04		seob9145	4S	6.11e-04
seob1972	4Q	0.04		mioa6418	4S	7.09e-04
miob7 913	4Q	0.04		miod1925	4S	7.23e-04
fcr3053	4Q	0.04		mioc4089	4S	7.46e-04
seob6198	4Q	0.04		mioc7362	4S	7.52e-04
fcrb2015	4Q	0.04		seob9960	4S	7.63e-04
mioa5326	4Q	0.04		seoa8388	4S	7.64e-04
hfcr1314	4Q	0.04		seob3303	4S	7.67e-04
seoc2029	4S	6.23e-07		ncrc2080	4S	8.53e-04
mioc7170	4S	2.53e-06		mioa5355	4S	8.58e-04
mioa2072	4S	3.26e-06		ncr8041	4S	8.61e-04
seob5523	4S	4.23e-06		ncrc9784	4S	8.77e-04
seob4419	4S	4.27e-06		fcrc7102	4S	8.87e-04
fcrc3993	4S	4.37e-06		mioa6731	4S	8.9e-04
seoa4461	4S	5.29e-06		mioc4667	4S	9.01e-04

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fcrbl539	4S	1.177578e-03	fcr3155	4S	3.832262e-03
miob9336	4S	1.178419e-03	ncr2182	4S	3.847974e-03
miodl942	4S	1.305311e-03	mioc7084	4S	3.93591e-03
mioa0909	4S	1.312146e-03	miod6018	4S	4.139368e-03
mioc2880	4S	1.356947e-03	miod4140	4S	4.240281e-03
mioc2348	4S	1.386736e-03	fcrb9649	4S	4.270145e-03
miod6038	4S	1.395436e-03	seoa9711	4S	4.329889e-03
fcr3101	4S	1.487316e-03	miob8226	4S	4.470203e-03
fcr4128	4S	1.53383e-03	mioa0890	4S	4.570501e-03
ncrc5162	4S	1.553082e-03	fcrb2318	4S	4.630688e-03
ncrb3001	4S	1.557302e-03	miod4 686	4S	4.657868e-03
miodl 811	4S	1.590472e-03	seoa7129	4S	4.719984e-03
seoa9740	4S	1.598061e-03	mioa6739	4S	4.778158e-03
mioa0494	4S	1.619093e-03	mioa0826	4S	4.884238e-03
mioc0052	4S	1.624699e-03	mioa6621	4S	4.904983e-03
miob9209	4S	1.634228e-03	fcrb5438	4S	4.92339e-03
ncrcl367	4S	1.650171e-03	mioa9831	4S	4.946737e-03
seoa4305	4S	1.678116e-03	fcrc6174	4S	4.953862e-03
seob0304	4S	1.693307e-03	fcrb3192	4S	4.985296e-03
fcrb3165	4S	1.760242e-03	ncr3684	4S	5.017654e-03
fcrc2099	4S	1.790284e-03	seobl318	4S	5.055898e-03
seobl766	4S	1.794891e-03	fcrc0430	4S	5.084925e-03
fcrc5516	4S	1.799844e-03	ncrc5672	4S	5.11611e-03
seob6506	4S	1.826439e-03	ncr2862	4S	5.163569e-03
ncrc5054	4S	1.860924e-03	miob6364	4S	5.172374e-03
seoc4380	4S	1.956915e-03	ncrc5500	4S	5.175143e-03
miod0592	4S	1.985622e-03	seob3204	4S	5.176722e-03
ncrcO15O	4S	1.985831e-03	miod3592	4S	5.253602e-03
miod5894	4S	2.014527e-03	mioc0824	4S	5.254723e-03
miod034 0	4S	2.021229e-03	ncrbl398	4S	5.295501e-03
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miob9163	4S	2.097664e-03	mioc8619	4S	5.353299e-03
fcrb9843	4S	2.120966e-03	fcr0990	4S	5.490991e-03
ncrO238	4S	2.1386e-03	fcrbl684	4S	5.495549e-03
miod2525	4S	2.174809e-03	fcrb6650	4S	5.525357e-03
fcrb2624	4S	2.174826e-03	fcr3282	4S	5.608041e-03
seoa0115	4S	2.17824e-03	fcrb7852	4S	5.667225e-03
fcr3121	4S	2.234303e-03	ncrc4654	4S	5.866006e-03
fcr7419	4S	2.260166e-03	fcrbl687	4S	5.960627e-03
fcrcO695	4S	2.279562e-03	fcr6390	4S	6.000719e-03
seoal065	4S	2.312579e-03	fcrl883	4S	6.048593e-03
fcrc6016	4S	2.3165e-03	fcr5536	4S	6.049129e-03
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mioa7140	4S	2.898369e-03	miod5612	4S	6.698915e-03
ncrc6359	4S	2.898846e-03	fcrb5087	4S	6.714694e-03
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fcrb3017	4S	3.376066e-03	mioa0249	4S	7.184179e-03
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miob4221	4S	7.572537e-03	miobl829	4S	0.01
hfcr0517	4S	7.704251e-03	mioc3092	4S	0.01
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seob8065	4S	8.459463e-03	fcr0280	4S	0.01
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fcr0770	4S	8.634112e-03	mioa5231	4S	0.01
ncr2905	4S	8.640653e-03	seoc7281	4S	0.01
mioa6738	4S	8.769774e-03	fcrcl745	4S	0.01
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mioa0707	4S	9.037843e-03	ncrb8790	4S	0.01
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mioc2541	4S	0.01	fcrb7751	4S	0.01
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mioc7170	4U	2.53e-06		seoa9740	40	1.598061e-03
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366

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fcrb4413	7B	1.011219e-03
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mioc7444	7B	1.056907e-03
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mioa8594	7B	2.071556e-03
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ncrb6087	7B	2.447161e-03
ncr9175	7B	2.614876e-03
fcr3714	7B	2.947117e-03
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fcrb9096	7B	3.931911e-03
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fcrc0075	7B	4.248397e-03
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seoa8521	7B	5.057401e-03
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fcrb7944	7B	5.840758e-03

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seob3163	7B	6.585485e-03	seoa5698	7B	0.01
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fcrb8393	7B	6.674381e-03	fcrb5775	7B	0.01
ncrcl469	7B	6.823212e-03	miocl928	7B	0.01
fcrb3330	7B	6.930815e-03	ncrc6796	7B	0.01
seoa2391	7B	6.95326e-03	seoa3102	7B	0.01
mioc5678	7B	6.998647e-03	ncr00l δ	7B	0.01
fcrbl807	7B	7.006094e-03	fcrb8334	7B	0.01
seoa7926	7B	7.014042e-03	fcrbl731	7B	0.01
fcrb6472	7B	7.107374e-03	fcrc2099	7B	0.01
fcrbl920	7B	7.188322e-03	seob7346	7B	0.01
ncrb0550	7B	7.225645e-03	fcrb3808	7B	0.01
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miob4956	7B	7.349209e-03	miob0399	7B	0.01
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fcrb8485	7B	7.481387e-03	fcr2861	7B	0.01
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mioa9033	7B	7.801274e-03	ncrc5016	7B	0.01
hfcr6141	7B	7.924398e-03	ncrc6479	7B	0.01
fcrl724	7B	7.976219e-03	ncrc3080	7B	0.01
seoc0394	7B	7.98437e-03	mioc3958	7B	0.01
mioc3523	7B	8.137321e-03	fcrb2376	7B	0.01
seoa4333	7B	8.239225e-03	seocl025	7B	0.01
mioa5902	7B	8.26574e-03	miob4975	7B	0.01
ncrc4323	7B	8.456349e-03	seob5081	7B	0.01
seob7180	7B	8.878316e-03	mioa3514	7B	0.01
ncrl437	7B	8.894272e-03	fcrb4832	7B	0.01
mioc7471	7B	8.933176e-03	seoa5746	7B	0.01
ncrc8963	7B	9.097822e-03	fcrbl690	7B	0.01
ncrcl952	7B	9.151906e-03	mioc0317	7B	0.01
mioa3428	7B	9.325496e-03	ncr3397	7B	0.01
fcrb4400	7B	9.397631e-03	fcr2897	7B	0.01
seoc3426	7B	9.422754e-03	fcrc0367	7B	0.01
mioc5664	7B	9.457355e-03	mioc2451	7B	0.01
ncr9371	7B	9.632014e-03	seob9552	7B	0.01
seoal812	7B	9.984721e-03	ncr0761	7B	0.01
fcrb2160	7B	0.01	miob3247	7B	0.01
seobl145	7B	0.01	seob6437	7B	0.01
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miod0878	7B	0.01	fcrb5761	7B	0.01
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seob2797	7B	0.01	fcrb9841	7B	0.01
mioa2377	7B	0.01	seob8807	7B	0.01
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ncrc0217	7B	0.01	ncrc4780	7B	0.01
seobl319	7B	0.01	ncrb2798	7B	0.01
seoa2641	7B	0.01	seob2689	7B	0.01
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miob4221	7B	0.01	ncrc9153	7B	0.01
seoa0462	7B	0.01	fcrc6470	7B	0.01

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seob6484	7B	0.02		ncr3369	7B	0.03
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seob9241	7B	0.02		fcrc6028	7B	0.03
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seoa1552	7B	0.02		seob0928	7B	0.03
miob5467	7B	0.02		ncr2575	7B	0.03
miod1030	7B	0.02		seob4492	7B	0.03
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seob4191	7B	0.02		seob5214	7B	0.03
miod3826	7B	0.02		seoc1 β61	7B	0.03
fcrc5831	7B	0.02		seob0497	7B	0.03
mioc2662	7B	0.02		miob6373	7B	0.03
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seob4001	7B	0.02		mioa1276	7B	0.03
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seoc2518	7B	0.02		fcrb9324	7B	0.03
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miob7 672	7B	0.02		hfcr0521	7B	0.04
seoa2962	7B	0.02		ncr7973	7B	0.04
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ncr9983	7B	0.02		fcrb5092	7B	0.04
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seoc1278	7B	0.03		fcrb1687	7B	0.04
miob8077	7B	0.03		seob5064	7B	0.04
seoa0014	7B	0.03		fcrb9520	7B	0.04
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mioc3930	7B	0.04	miobl059	7C	3.273784e-03
seobl316	7B	0.04	fcrl657	7C	3.33072e-03
ncr2256	7B	0.04	seob6879	7C	3.527558e-03
seoa6144	7B	0.04	ncr3869	7C	3.790137e-03
ncrc0592	7B	0.04	miob0180	7C	3.857035e-03
miob2093	7B	0.04	hfcr β611	7C	4.095694e-03
fcrb6734	7B	0.04	seoc3426	7C	4.1094e-03
fcrb8910	7B	0.04	miob0636	7C	4.169115e-03
seoa4158	7B	0.04	mioc3523	7C	4.183983e-03
seoa6393	7B	0.04	ncrcl608	7C	4.401747e-03
miob4064	7B	0.04	ncrc0729	7C	4.516067e-03
mioc2694	7B	0.04	ncr0791	7C	4.561328e-03
fcrb5198	7B	0.04	seobl319	7C	4.576012e-03
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fcrc4408	7B	0.04	mioa9246	7C	4.789915e-03
miob2210	7B	0.04	miocl978	7C	4.797667e-03
seoa2824	7B	0.04	miodl908	7C	4.876308e-03
ncrc6941	7B	0.04	mioa5468	7C	4.907885e-03
seob3009	7B	0.04	seob5032	7C	4.975292e-03
miob6437	7B	0.04	miob4378	7C	5.078973e-03
fcrb7487	7B	0.04	fcrb3330	7C	5.374198e-03
seoa4598	7B	0.04	seoc4748	7C	5.469684e-03
fcrb4579	7B	0.04	mioc3962	7C	5.503304e-03
mioc8278	7B	0.04	mioc3958	7C	5.585154e-03
ncrb8437	7B	0.04	fcrc0367	7C	5.737407e-03
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mioa8852	7B	0.04	miob9087	7C	5.972077e-03
fcrc2577	7B	0.04	fcrb5187	7C	5.978955e-03
seoc0491	7B	0.04	seob3533	7C	6.085375e-03
mioc3413	7B	0.04	mioa9792	7C	6.087453e-03
miob7290	7B	0.04	hfcr3197	7C	6.106227e-03
ncrc9612	7B	0.04	seoc2510	7C	6.174005e-03
ncrc9023	7B	0.04	mioal380	7C	6.442511e-03
mioc8945	7B	0.04	ncrc5716	7C	6.68224e-03
mioal025	7B	0.04	ncrc9469	7C	6.77346e-03
seoa5554	7B	0.04	fcrb4413	7C	6.787171e-03
fcrb8829	7B	0.04	ncrc9633	7C	6.817579e-03
ncr8199	7B	0.04	miob0189	7C	7.012368e-03
fcrb6620	7C	1.77e-04	seoc0394	7C	7.095938e-03
miob4574	7C	1.83e-04	ncr8910	7C	7.351684e-03
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mioc7471	7C	1.435651e-03	fcrb9841	7C	8.62362e-03
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seob5778	7C	2.02244e-03	fcrc0604	7C	9.581387e-03
fcrbl720	7C	2.141799e-03	seoc4145	7C	9.588973e-03
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seob9552	7C	3.172751e-03	seobl145	7C	0.01

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fcrb1807	1C	0.01	mioa9604	7C	0.01
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seoa5698	1C	0.01	seoc1664	7C	0.02
fcrb9588	1C	0.01	seoc3883	7C	0.02
miod3546	1C	0.01	miod3826	1C	0.02
fcrb1690	1C	0.01	fcrb6871	1C	0.02
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fcrb3119	1C	0.01	seoa5843	1C	0.02
fcrb8061	1C	0.01	fcrb6661	1C	0.02
miob9336	1C	0.01	mioa8987	1C	0.02
ncr4946	1C	0.01	fcrb2592	1C	0.02
seoa8443	1C	0.01	miob8578	1C	0.02
mioc5664	1C	0.01	fcr2897	1C	0.02
seoc0523	1C	0.01	ncr4859	1C	0.02
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miod0355	1C	0.01	miob9284	1C	0.02
mioc9008	1C	0.01	seoa5746	1C	0.02
seoa2391	1C	0.01	mioa7140	1C	0.02
fcrb2041	1C	0.01	fcr5141	1C	0.02
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seoa3121	1C	0.01	fcrc0549	1C	0.02
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seoc0276	1C	0.01	seob4492	1C	0.02
fcrc2807	1C	0.01	fcrb7833	1C	0.02
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ncr4118	1C	0.01	seoal776	1C	0.02
seoc6169	1C	0.01	miob7913	1C	0.02
mioal775	1C	0.01	miob2918	1C	0.02
seoa0014	1C	0.01	fcrb0359	1C	0.03
ncrc8892	1C	0.01	ncrc1589	1C	0.03
fcrb9520	1C	0.01	mioa0482	1C	0.03
fcrb4415	1C	0.01	mioc2394	1C	0.03

seoa432 7	7C	O D
seoa6175	7C	0.03
miob4 413	7C	0.03
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miob3552	1C	0.03
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ncrb4428	1C	0.03
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miob9710	1C	0.03
ncrcl687	1C	0.03
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ncrb6282	1C	0.03
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seoa5743	7C	0.03
seob4079	7C	0.03
seob6028	1C	0.03
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fcrb9475	7C	0.04
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seob8853	7C	0.04
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mioa9033	7D	5.75e-04
fcrb5840	7D	8.51e-04
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fcrl724	7D	1.477911e-03
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ncr9175	7D	1.845832e-03
seobl801	7D	1.975048e-03
seob5778	7D	2.02244e-03
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fcrl657	7D	3.33072e-03
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ncr3869	7D	3.790137e-03
miob0180	7D	3.857035e-03
hfcr β611	7D	4.095694e-03
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mioc3523	7D	4.183983e-03
ncrcl608	7D	4.401747e-03
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miodl908	7D	4.876308e-03	fcrb3704	7D	0.01
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mioc3962	7D	5.503304e-03	ncrc6871	7D	0.01
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seoc2510	7D	6.174005e-03	miob9336	7D	0.01
mioal380	7D	6.442511e-03	ncr4 946	7D	0.01
ncrc5716	7D	6.68224e-03	seoa8443	7D	0.01
ncrc9469	7D	6.77346e-03	mioc5664	7D	0.01
fcrb4413	7D	6.787171e-03	ncrb0550	7D	0.01
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miob0189	7D	7.012368e-03	seob7952	7D	0.01
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ncrb0513	7D	9.541507e-03	ncrb8821	7D	0.01
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seob9241	7D	9.629249e-03	seoa0014	7D	0.01
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miob4956	7D	0.01	fcrb9520	7D	0.01
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hfcr0439	7D	0.02	ncrb6282	7D	0.03
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miob2918	7D	0.02	ncr3141	7D	0.04
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fcrb7944	7E	3.286402e-03	fcrc0559	7E	0.01
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ncrc4219	7E	0.01	miob4 673	7E	0.02
seoal776	7E	0.01	mioa8852	7E	0.02
fcrc4408	7E	0.01	miob2210	7E	0.02
mioc6298	7E	0.01	ncrbO328	7E	0.02
miob9688	7E	0.01	seoa5094	7E	0.02
seoa9916	7E	0.01	mioa8970	7E	0.02
seoc5228	7E	0.01	fcrcO549	7E	0.02
ncrc3408	7E	0.01	ncr7178	7E	0.02
seob6773	7E	0.01	seob7346	7E	0.02
fcrb6968	7E	0.01	ncrb8343	7E	0.02
ncrb8530	7E	0.01	fcrb6031	7E	0.02
seobl891	7E	0.01	fcrbl529	7E	0.02
miob7109	7E	0.01	ncr4378	7E	0.02
mioa5902	7E	0.01	fcrcl834	7E	0.02
fcrb2203	7E	0.01	seoa5746	7E	0.02
seoa2962	7E	0.01	seob8241	7E	0.02
seoa3415	7E	0.01	seob6535	7E	0.02
miob8932	7E	0.01	seoc4748	7E	0.02
fcrb8393	7E	0.01	fcrb24 60	7E	0.02
miob9304	7E	0.02	fcrb3521	7E	0.02
ncrcO829	7E	0.02	seoa6393	7E	0.02
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fcrb4696	7E	0.02	seocl167	7E	0.02
miob3928	7E	0.02	miob3618	7E	0.02
mioc4888	7E	0.02	mioa8778	7E	0.02
ncr3793	7E	0.02	mioa8824	7E	0.02
ncrclO32	7E	0.02	mioal584	7E	0.02
seoa5392	7E	0.02	miob8515	7E	0.02
seob7729	7E	0.02	seoc3394	7E	0.02
fcrb2041	7E	0.02	ncrc8937	7E	0.02
seob5080	7E	0.02	mioc1995	7E	0.02
fcrb9135	7E	0.02	seoa6598	7E	0.02
seob4030	7E	0.02	fcrb4280	7E	0.02
fcrc2807	7E	0.02	seob6872	7E	0.02
seob6096	7E	0.02	seob9334	7E	0.02

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ncrc4135	7E	0.02		seob6386	7E	0.03
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ncrc7040	7E	0.02		seoa9870	7E	0.03
mioa2303	7E	0.02		ncrc5768	7E	0.03
miob1946	7E	0.02		ncrc9557	7E	0.03
seob3533	7E	0.02		ncrc9483	7E	0.03
fcrb6620	7E	0.02		fcrb2102	7E	0.03
mioc7910	7E	0.02		ncr8041	7E	0.03
seoc2518	7E	0.02		mioa9891	7E	0.03
mioc3958	7E	0.02		seob4303	7E	0.03
seob5764	7E	0.02		fcrb284 9	7E	0.03
miob2833	7E	0.02		fcrb6896	7E	0.03
mioc3716	7E	0.02		miob5855	7E	0.03
seoa7509	7E	0.02		ncrc9351	7E	0.03
ncrc4757	7E	0.02		ncrc9232	7E	0.03
seoa7212	7E	0.03		mioa4318	7E	0.03
seob4001	7E	0.03		mioa4077	7E	0.03
fcr7386	7E	0.03		fcr4308	7E	0.03
fcrb6406	7E	0.03		ncr7826	7E	0.03
miob4368	7E	0.03		seob5726	7E	0.03
fcrb8162	7E	0.03		ncr8420	7E	0.04
seob0442	7E	0.03		seob8972	7E	0.04
seoc2681	7E	0.03		fcrb6834	7E	0.04
mioc5336	7E	0.03		mioc2290	7E	0.04
mioa3588	7E	0.03		mioc5561	7E	0.04
miod4564	7E	0.03		ncrb3301	7E	0.04
fcrb9871	7E	0.03		seoc2135	7E	0.04
fcrb8465	7E	0.03		miob9882	7E	0.04
seob2797	7E	0.03		miod0845	7E	0.04
seoa4181	7E	0.03		ncrb8821	7E	0.04
fcrb8674	7E	0.03		miod6845	7E	0.04
ncr3035	7E	0.03		mioc0315	7E	0.04
seoa3852	7E	0.03		ncr0045	7E	0.04
miob0167	7E	0.03		seoal065	7E	0.04
seoc2584	7E	0.03		fcrc6826	7E	0.04
fcr0793	7E	0.03		seob5418	7E	0.04
miob3044	7E	0.03		seob7409	7E	0.04
mioa1655	7E	0.03		seoa3908	7E	0.04
fcr0986	7E	0.03		fcrbl731	7E	0.04
fcrb4360	7E	0.03		seob8031	7E	0.04
mioc3962	7E	0.03		hfcr3445	7E	0.04
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fcr3043	7E	0.03		fcrc5831	7E	0.04
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seob3370	7E	0.03		mioa8925	7E	0.04
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fcrl404	7E	0.03		ncr5522	7E	0.04
seob3699	7E	0.03		ncrb0054	7E	0.04
fcrc6335	7E	0.03		ncr0634	7E	0.04
miocl963	7E	0.03		mioa9492	7E	0.04
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fcrb1787	7E	0.03		miob9233	7E	0.04
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seoa5151	7E	0.03		seob9302	7E	0.04
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mioc5661	7E	0.04		seoa6620	7H	3.154417e-03
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ncr0898	7H	0.01
ncr5971	7H	0.01
ncrb3056	7H	0.01
ncrb8404	7H	0.01
ncrc5243	7H	0.01
seoa0014	7H	0.01
seoa2442	7H	0.01
seoa4586	7H	0.01
seoa4727	7H	0.01
seoa7555	7H	0.01
seoa8397	7H	0.01
seob1879	7H	0.01
seob2685	7H	0.01
seob4419	7H	0.01
seob7432	7H	0.01

ncr5568	7H	0.01
seoal736	7H	0.01
fcr4802	7H	0.01
seob0975	7H	0.01
hfcr2672	7H	0.01
ncr0238	7H	0.01
fcr6616	7H	0.01
hfcr9811	7H	0.01
ncrb2151	7H	0.01
ncrb0696	7H	0.01
seob4451	7H	0.01
mioa6089	7H	0.01
fcrbl120	7H	0.01
hfcr5604	7H	0.01
mioa5420	7H	0.01
mioa3654	7H	0.01
hfcr6677	7H	0.01
ncrc4597	7H	0.01
seoa8921	7H	0.01
ncr7876	7H	0.01
seob0371	7H	0.01
fcrb3127	7H	0.01
hfcr9320	7H	0.01
seob5558	7H	0.02
fcr3539	7H	0.02
seoal582	7H	0.02
seoalll 8	7H	0.02
ncr0851	7H	0.02
fcrb2302	7H	0.02
hfcr0366	7H	0.02
seoa0860	7H	0.02
fcr6412	7H	0.02
fcrbl320	7H	0.02
fcrb2596	7H	0.02
fcrb4249	7H	0.02
hfcr0041	7H	0.02
hfcr2295	7H	0.02
hfcr4488	7H	0.02
hfcr6921	7H	0.02
mioal213	7H	0.02
mioa2993	7H	0.02
mioa4883	7H	0.02
mioa5692	7H	0.02
mioa5696	7H	0.02
mioa6064	7H	0.02
miob3794	7H	0.02
miob4248	7H	0.02
miob6878	7H	0.02
ncr2966	7H	0.02
ncr3163	7H	0.02
ncr4535	7H	0.02
seoa0099	7H	0.02
seoal598	7H	0.02
seoa7647	7H	0.02
seobl737	7H	0.02
ncrcll03	7H	0.02
ncrc6348	7H	0.02
hfcr3956	7H	0.02
seoa6573	7H	0.02
hfcr0511	7H	0.02
miob3042	7H	0.02
ncrl550	7H	0.02
hfcr8540	7H	0.02
mioblOl β	7H	0.02
fcr4795	7H	0.02
fcr0343	7H	0.02
fcr0589	7H	0.02
fcr3125	7H	0.02
fcrbl539	7H	0.02
fcrbl835	7H	0.02
fcrb2094	7H	0.02
fcrb2321	7H	0.02
fcrb4316	7H	0.02
hfcr5706	7H	0.02
hfcr6498	7H	0.02
hfcr8982	7H	0.02
miob6865	7H	0.02
ncr3435	7H	0.02
ncrc4757	7H	0.02
seoal575	7H	0.02
seoa6521	7H	0.02
seoa9131	7H	0.02
seob0572	7H	0.02
seob5174	7H	0.02
seob6812	7H	0.02
seob7505	7H	0.02
ncrb4472	7H	0.02
ncr7136	7H	0.02
seob4621	7H	0.02
ncr0612	7H	0.02
mioa3335	7H	0.02
seoa0824	7H	0.02
ncr3149	7H	0.02
seob2108	7H	0.02
fcrb3704	7H	0.02
fcr7095	7H	0.02
ncr3827	7H	0.02
fcr5560	7H	0.02
seoal 611	7H	0.02
fcrb2933	7H	0.02
miob0682	7H	0.02
fcr0018	7H	0.02
fcr0796	7H	0.02
fcr2160	7H	0.02
fcr3701	7H	0.02
fcr5220	7H	0.02
fcr 61β1	7H	0.02
fcrb3134	7H	0.02
hfcr0023	7H	0.02
hfcr0383	7H	0.02
hfcr0776	7H	0.02
hfcr2803	7H	0.02
hfcr3602	7H	0.02
hfcr4444	7H	0.02
hfcr5956	7H	0.02
hfcr7151	7H	0.02
hfcr7317	7H	0.02
mioa0595	7H	0.02
mioa0884	7H	0.02
miob2645	7H	0.02
miob6562	7H	0.02
ncr0335	7H	0.02
ncr2182	7H	0.02
ncr5264	7H	0.02
ncr7852	7H	0.02
ncrb4441	7H	0.02
ncrc0139	7H	0.02

ncrc3464	7H	0.02	ncr8542	7H	0.03
ncrc3650	7H	0.02	ncrb1956	7H	0.03
ncrc4994	7H	0.02	ncrc0583	7H	0.03
ncrc8841	7H	0.02	seoa0111	7H	0.03
seoa0600	7H	0.02	seoa1102	7H	0.03
seoa0956	7H	0.02	seoa6393	7H	0.03
seoa1358	7H	0.02	seoa6612	7H	0.03
seoa1875	7H	0.02	seoa6658	7H	0.03
seoa2467	7H	0.02	seob β000	7H	0.03
seoa4012	7H	0.02	seob6883	7H	0.03
seoa5473	7H	0.02	seob7764	7H	0.03
seoa7295	7H	0.02	ncrc0324	7H	0.03
seoa7553	7H	0.02	fcr5958	7H	0.03
seob0122	7H	0.02	seob5726	7H	0.03
seob3169	7H	0.02	fcrb2396	7H	0.03
seob5537	7H	0.02	mioa8039	7H	0.03
hfcr8864	7H	0.02	fcrb3026	7H	0.03
seoa0549	7H	0.02	seob0063	7H	0.03
seob0688	7H	0.02	mioa2522	7H	0.03
seoa1883	7H	0.02	ncr3673	7H	0.03
fcr3549	7H	0.02	fcr4566	7H	0.03
miob6437	7H	0.02	fcrb2041	7H	0.03
seob1853	7H	0.02	hfcr2941	7H	0.03
fcrb1017	7H	0.02	hfcr2963	7H	0.03
mioa4009	7H	0.02	hfcr8804	7H	0.03
mioa3672	7H	0.02	mioa1380	7H	0.03
ncr0107	7H	0.02	mioa1947	7H	0.03
fcrb2749	7H	0.02	mioa4076	7H	0.03
seoa4783	7H	0.02	mioa6772	7H	0.03
ncr0258	7H	0.02	mioa9648	7H	0.03
seoa3408	7H	0.02	ncr8337	7H	0.03
ncr0045	7H	0.02	ncrb0200	7H	0.03
seoa1765	7H	0.02	ncrb4437	7H	0.03
seoa5303	7H	0.02	ncrb4555	7H	0.03
ncrc5113	7H	0.02	ncrc1380	7H	0.03
ncrb5244	7H	0.02	ncrc1595	7H	0.03
seob7658	7H	0.02	seoa1540	7H	0.03
miob4 408	7H	0.02	seoa3109	7H	0.03
hfcr1141	7H	0.03	seoa9140	7H	0.03
seoa2135	7H	0.03	seoa9930	7H	0.03
seoa2889	7H	0.03	seob0386	7H	0.03
fcr0837	7H	0.03	seob0442	7H	0.03
ncrc0320	7H	0.03	seob2011	7H	0.03
hfcr4114	7H	0.03	seob4466	7H	0.03
seob3545	7H	0.03	fcr0620	7H	0.03
ncrc0529	7H	0.03	miob6419	7H	0.03
fcr7114	7H	0.03	fcr6142	7H	0.03
seoa8300	7H	0.03	seoa0101	7H	0.03
hfcr2390	7H	0.03	mioa5329	7H	0.03
fcr2494	7H	0.03	seoa0990	7H	0.03
fcrb2299	7H	0.03	miob2705	7H	0.03
fcrb2647	7H	0.03	ncr2176	7H	0.03
fcrb3192	7H	0.03	seoa1901	7H	0.03
fcrb4333	7H	0.03	hfcr3224	7H	0.03
fcrb5297	7H	0.03	ncrc9727	7H	0.03
hfcr1302	7H	0.03	seob3326	7H	0.03
hfcr3540	7H	0.03	hfcr5691	7H	0.03
mioa3812	7H	0.03	ncrb4 957	7H	0.03
mioa3987	7H	0.03	ncrb8343	7H	0.03
mioa6913	7H	0.03	seoa6661	7H	0.03
mioa9666	7H	0.03	fcr7128	7H	0.03
miob2687	7H	0.03	mioa2536	7H	0.03
ncr3148	7H	0.03	seob7444	7H	0.03
ncr4539	7H	0.03	ncrb737 6	7H	0.03

s·sóal 64	TH	0.73		seoa0065	7H	0.04
ncrcl031	7H	0.03		hfcr2287	7H	0.04
seob2631	7H	0.03		seob6678	7H	0.04
fcrb2077	7H	0.03		seoal232	7H	0.04
seoa0044	7H	0.03		ncrc2776	7H	0.04
fcr0179	7H	0.03		fcr5758	7H	0.04
fcrl242	7H	0.03		ncrb34 98	7H	0.04
fcr2860	7H	0.03		seob4191	7H	0.04
fcrbl689	7H	0.03		seoa9935	7H	0.04
fcrb5311	7H	0.03		seoal080	7H	0.04
hfcr5883	7H	0.03		fcrb3702	7H	0.04
mioal971	7H	0.03		fcr7146	7H	0.04
mioa7415	7H	0.03		fcrl951	7H	0.04
miob0178	7H	0.03		fcr2167	7H	0.04
miobl337	7H	0.03		fcr2442	7H	0.04
miob24 92	7H	0.03		fcr3983	7H	0.04
miob2836	7H	0.03		fcr4385	7H	0.04
miob4 867	7H	0.03		fcr4927	7H	- 0.04
ncr0019	7H	0.03		fcr7667	7H	0.04
ncr3368	7H	0.03		fcrb242 6	7H	0.04
ncr β619	7H	0.03		fcrb2575	7H	0.04
ncr7178	7H	0.03		hfcr5919	7H	0.04
ncrbl515	7H	0.03		hfcr7357	7H	0.04
ncrb6675	7H	0.03		hfcr9290	7H	0.04
ncrc0341	7H	0.03		hfcr9296	7H	0.04
ncrc0457	7H	0.03		mioa0245	7H	0.04
ncrc3457	7H	0.03		mioa3160	7H	0.04
ncrc4411	7H	0.03		miobl194	7H	0.04
ncrc8903	7H	0.03		miob6432	7H	0.04
seoa0003	7H	0.03		ncr0266	7H	0.04
seoa0219	7H	0.03		ncrb2558	7H	0.04
seoal900	7H	0.03		ncrb7726	7H	0.04
seoa3670	7H	0.03		ncrc6423	7H	0.04
seoa5302	7H	0.03		seoa4327	7H	0.04
seobl410	7H	0.03		seoa7249	7H	0.04
seob3119	7H	0.03		seoa9828	7H	0.04
seob4440	7H	0.03		seoa9998	7H	0.04
seob4965	7H	0.03		seob0999	7H	0.04
seob5684	7H	0.03		seobl008	7H	0.04
seob6630	7H	0.03		seobl052	7H	0.04
seob7744	7H	0.03		seobl426	7H	0.04
seob8287	7H	0.03		seobl842	7H	0.04
ncrc4362	7H	0.03		seob4570	7H	0.04
fcrbl687	7H	0.03		seob5441	7H	0.04
ncrc6417	7H	0.03		hfcrl697	7H	0.04
seob0376	7H	0.03		seoa0512	7H	0.04
seob5711	7H	0.03		seob2085	7H	0.04
fcr4743	7H	0.03		seoa2449	7H	0.04
fcr5472	7H	0.03		seob8241	7H	0.04
miob3120	7H	0.03		seoa0221	7H	0.04
seoa4264	7H	0.04		seob4570	7H	0.04
mioal062	7H	0.04		fcr6887	7H	0.04
seoa7064	7H	0.04		ncr7088	7H	0.04
seoa0840	7H	0.04		seobl746	7H	0.04
seoa6734	7H	0.04		hfcr8475	7H	0.04
ncr4416	7H	0.04		ncrc5061	7H	0.04
seob5493	7H	0.04		ncr8843	7H	0.04
fcrb0624	7H	0.04		fcr0237	7H	0.04
mioa6690	7H	0.04		seoa5698	7H	0.04
mioa8713	7H	0.04		miob6228	7H	0.04
seob0763	7H	0.04		fcr5625	7H	0.04
hfcr3019	7H	0.04		fcrb2315	7H	0.04
hfcr0750	7H	0.04		hfcr0676	7H	0.04
ncrc0292	7H	0.04		hfcr2535	7H	0.04

Kf&f52"4'4	7H	0.04
hfcr5381	7H	0.04
hfcr6243	7H	0.04
hfcr6971	7H	0.04
hfcr7631	7H	0.04
hfcr9743	7H	0.04
mioa0890	7H	0.04
mioa2295	7H	0.04
mioa4057	7H	0.04
mioa6595	7H	0.04
mioa7522	7H	0.04
mioa9062	7H	0.04
ncrl122	7H	0.04
ncr2288	7H	0.04
ncr3588	7H	0.04
ncr4040	7H	0.04
ncr7097	7H	0.04
ncr8413	7H	0.04
ncr9587	7H	0.04
ncrb74 65	7H	0.04
ncrcl665	7H	0.04
seoal776	7H	0.04
seoa3287	7H	0.04
seoa6466	7H	0.04
seoa6637	7H	0.04
seoa6677	7H	0.04
seoa6754	7H	0.04
seob0085	7H	0.04
seob0755	7H	0.04
seob2067	7H	0.04
seob4333	7H	0.04
seob5336	7H	0.04
hfcr8495	7H	0.04
hfcr3846	7H	0.04
seoal483	7H	0.04
seoa9603	7H	0.04
mioa9179	7H	0.04
seoa3344	7H	0.04
mioa8861	7H	0.04
ncrc5054	7H	0.04
hfcr6534	7H	0.04
seob6368	7H	0.04
mioa8594	7H	0.04
fcrb2545	7H	0.04
seoa0799	7H	0.04
miob5632	7H	0.04
mioa4014	7H	0.04
miob3911	71	4.41e-04
seob2067	71	6.57e-04
ncrc4772	71	8.82e-04
seoc0149	71	2.085221e-03
ncrc4759	71	2.552738e-03
ncrb0074	71	2.926149e-03
fcrb9565	71	3.208495e-03
fcrc2431	71	3.223683e-03
hfcrl826	71	3.257445e-03
miob3120	71	3.257445e-03
seoa9209	71	3.257445e-03
soa0550	71	4.178366e-03
miod6038	71	4.186981e-03
ncrc3690	71	4.482529e-03
fcrb4718	71	4.540706e-03
seoa9656	71	4.540706e-03
mioc6269	71	5.370316e-03
fcr2188	71	5.437357e-03
miod382 6	71	6.215714e-03
seob0084	71	6.215714e-03
seob0782	71	6.215714e-03
seob4928	71	6.215714e-03
seoa6178	71	6.305954e-03
seob2658	71	7.212877e-03
ncrc0749	71	8.040483e-03
ncrb8035	71	8.36773e-03
ncrc6774	71	8.36773e-03
seob4029	71	8.879458e-03
ncrc4302	71	9.231614e-03
ncr3397	71	9.740651e-03
seoa5698	71	9.777088e-03
mioc6341	71	0.01
miob9830	71	0.01
fcrbll58	71	0.01
fcrb6791	71	0.01
seoa5743	71	0.01
seobl617	71	0.01
fcrO187	71	0.01
fcrb5422	71	0.01
miod6554	71	0.01
ncrc9394	71	0.01
fcrc0350	71	0.01
ncr3587	71	0.01
seob5397	71	0.01
fcrl394	71	0.01
fcrb2996	71	0.01
miobl833	71	0.01
ncre5706	71	0.01
mioa0291	71	0.01
fcrO535	71	0.01
fcrb2715	71	0.01
ncrb8160	71	0.01
ncrc3864	71	0.01
ncrd4 954	71	0.01
seoa9930	71	0.01
seob0928	71	0.02
mioc7509	71	0.02
crO491	71	0.02
seob9435	71	0.02
mioc6973	71	0.02
ncrd7372	71	0.02
ncr0004	71	0.02
seocl305	71	0.02
seob9614	71	0.02
ncrd4929	71	0.02
fcrbl769	71	0.02
fcrb5441	71	0.02
fcrb6469	71	0.02
fcrb9124	71	0.02
miod4539	71	0.02
ncr7852	71	0.02
ncrc4132	71	0.02
ncrc6749	71	0.02
seoa8979	71	0.02
seocl025	71	0.02
seoa2381	71	0.02
ncrc9168	71	0.02
fcrb8664	71	0.02
ncrl122	71	0.02
miod2330	71	0.02
ncrb6846	71	0.02

fcbf910$	71	0.02		seoc2136	71	0.03
fcr2498	71	0.02		miob9533	71	0.03
hfcr0130	71	0.02		fcrb6738	71	0.03
miob4221	71	0.02		fcr4725	71	0.04
mioc8254	71	0.02		fcrb8236	71	0.04
fcrc6010	71	0.02		fcrb6723	71	0.04
fcrl225	71	0.02		fcrl463	71	0.04
fcrl994	71	0.02		miob8694	71	0.04
fcrb7723	71	0.02		seoa7917	71	0.04
mioa4810	71	0.02		ncrc9530	71	0.04
miob5412	71	0.02		seob6558	71	0.04
mioc3574	71	0.02		mioa5468	71	0.04
ncrc032O	71	0.02		miod6324	71	0.04
ncrc5762	71	0.02		fcrb0131	71	0.04
ncrd3638	71	0.03		fcrc0839	71	0.04
fcrb4383	71	0.03		hfcr6336	71	0.04
fcrb7699	71	0.03		mioa5202	71	0.04
fcrb3153	71	0.03		ncr7668	71	0.04
ncrb34 68	71	0.03		ncrc5492	71	0.04
fcrc5506	71	0.03		seob4065	71	0.04
seob7082	71	0.03		seob9420	71	0.04
miob8992	71	0.03		seob9818	71	0.04
fcrc7243	71	0.03		seoc4748	71	0.04
hfcr3019	71	0.03		hfcr2275	71	0.04
ncrd3708	71	0.03		seoa8018	71	0.04
seoal776	71	0.03		ncrcO728	71	0.04
seoal883	71	0.03		fcrb3080	71	0.04
seoa5580	71	0.03				

Table #8B

AffySpot	Tablet	pvalue
2017 94_s_at	IAA	1.68e-06
212640_at	IAA	4.74e-06
205060_at	IAA	4.18e-05
20468 β_at	IAA	6.09e-05
212648_at	IAA	6.57e-05
224 369_s_at	IAA	6.68e-05
221306_at	IAA	1.23e-04
22490 β_at	IAA	1.35e-04
203810_at	IAA	1.37e-04
20824 8_x_at	IAA	1.67e-04
221582_at	IAA	1.85e-04
216907_x_at	IAA	1.92e-04
211935_at	IAA	2.21e-04
212718_at	IAA	2.37e-04
20325 4_s_at	IAA	2.53e-04
215049_x_at	IAA	2.69e-04
202443_x_at	IAA	2.69e-04
208772_at	IAA	2.69e-04
21417 3_x_at	IAA	2.72e-04
230243_at	IAA	2.91e-04
201935_s_at	IAA	3.21e-04
224859_at	IAA	3.63e-04
206059_at	IAA	3.84e-04
204573_at	IAA	4.09e-04
218236_s_at	IAA	4.12e-04
200709_at	IAA	4.2e-04
202783_at	IAA	4.24e-04
203037_s_at	IAA	4.3e-04
206632_s_at	IAA	4.35e-04
1564785_at	IAA	4.37e-04
200697_at	IAA	4.56e-04
202638_s_at	IAA	4.65e-04
202786_at	IAA	4.73e-04
208704_x_at	IAA	4.78e-04
2128 63_x_at	IAA	4.91e-04
213906_at	IAA	4.93e-04
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41577_at	IAA	6.09e-04
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2178 62_at	IAA	7.33e-04
217 970_s_at	IAA	7.43e-04
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220999_s__at	IAA	7.75e-04
202096_s__at	IAA	7.86e-04
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AffySpot	Tablet	pvalue
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211733 _x_at	IAA	9.02e-04
202184^_s_at	IAA	9.34e-04
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216041 "_x_at	IAA	9.79e-04
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387

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1553575_at	IAA	3.128658e-03
200998_s_at	IAA	3.136179e-03
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212238_at	IAA	3.149936e-03
218049_s_at	IAA	3.181837e-03
207643_s_at	IAA	3.199835e-03
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200611_s_at	IAA	3.57971e-03
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203575_at	IAA	3.741402e-03
211048_s_at	IAA	3.741402e-03
200827_at	IAA	3.741402e-03
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201743_at	IAA	4.199043e-03
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200850_s_at	IAA	4.401119e-03
212250_at	IAA	4.420595e-03
207111_at	IAA	4.428872e-03
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217762_s_at	IAA	5.059546e-03
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391

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hum _alu_at	IAA	7.557581e-03	217232 _x_at	IAA	7.557581e-03
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209995 _s_at	IAA 7.557581e-03	208829 _at	IAA 7.557581e-03
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201236_s_at	IAA	7.557581e-03	209146_at	IAA	8.209195e-03
201071_x_at	IAA	7.557581e-03	208848_at	IAA	8.212483e-03
201426_s_at	IAA	7.557581e-03	212692_s_at	IAA	.234798e-03
201594_s_at	IAA	7.557581e-03	205212_s_at	IAA	8.258769e-03
200926_at	IAA	7.557581e-03	205312_at	IAA	8.271037e-03
201217_x_at	IAA	7.557581e-03	202761_s_at	IAA	8.287775e-03
201254_x_at	IAA	7.557581e-03	208619_at	IAA	8.312131e-03
200963_x_at	IAA	7.557581e-03	200866_s_at	IAA	8.320536e-03
201356_JLt	IAA	7.557581e-03	218152_at	IAA	8.33309e-03
201331_s_at	IAA	7.557581e-03	202846_s_at	IAA	8.338187e-03
201258_at	IAA	7.557581e-03	207734_at	IAA	8.367267e-03
201143_s_at	IAA	7.557581e-03	202923_s_at	IAA	8.409531e-03
201953_at	IAA	7.557581e-03	202856_s_at	IAA	8.441958e-03
201642_at	IAA	7.557581e-03	207983_s_at	IAA	8.45187e-03
200871_s_at	IAA	7.557581e-03	53071_s_at	IAA	8.519703e-03
201315_x_at	IAA	7.557581e-03	209906_at	IAA	8.585797e-03
201180_s_at	IAA	7.557581e-03	217990_at	IAA	8.592255e-03
200936_at	IAA	7.557581e-03	217827_s_at	IAA	8.593364e-03
200937_s_at	IAA	7.557581e-03	221808_at	IAA	8.595504e-03
201172_x_at	IAA	7.557581e-03	201536_at	IAA	8.599995e-03
200905_x_at	IAA	7.557581e-03	218136_s_at	IAA	8.61194e-03
201737_s_at	IAA	7.557581e-03	213159_at	IAA	8.647098e-03
200949_x_at	IAA	7.557581e-03	217822_at	IAA	8.66955e-03
201257_x_at	IAA	7.557581e-03	201277_s_at	IAA	8.672249e-03
200933_x_at	IAA	7.557581e-03	205627_at	IAA	8.707481e-03
201094_at	IAA	7.557581e-03	209994_s_at	IAA	8.765132e-03
201859_at	IAA	7.557581e-03	218128_at	IAA	8.804967e-03
201041_s_at	IAA	7.557581e-03	208876_s_at	IAA	8.807416e-03
201010_s_at	IAA	7.557581e-03	201175_at	IAA	8.813446e-03
201492_s_at	IAA	7.557581e-03	218570_at	IAA	8.81458e-03
201466_s_at	IAA	7.557581e-03	203113_s_at	IAA	8.81582e-03
201049_s_at	IAA	7.557581e-03	202451_at	IAA	8.821909e-03
201030_x_at	IAA	7.557581e-03	1553644_at	IAA	8.834419e-03
200858_s_at	IAA	7.557581e-03	226354_at	IAA	8.838035e-03
204354_at	IAA	7.558249e-03	AFFX-HUMGAPDH/		
217985_s_at	IAA	7.578506e-03	M33197	IAA	8.838035e-03
202124_s_at	IAA	7.578961e-03	218950_at	IAA	8.838035e-03
208485_x_at	IAA	7.633872e-03	213046_at	IAA	8.838035e-03
218929_at	IAA	7.651591e-03	206978_at	IAA	8.838035e-03
229510_at	IAA	7.667683e-03	204908_s_at	IAA	8.838035e-03
205608_s_at	IAA	7.689956e-03	201040_at	IAA	8.838035e-03
201503_at	IAA	7.719202e-03	201590_x_at	IAA	8.838035e-03
204061_at	IAA	7.732518e-03	201666_at	IAA	8.838035e-03
204299_at	IAA	7.744186e-03	214118_x_at	IAA	8.867592e-03
207668_x_at	IAA	7.744199e-03	211675_s_at	IAA	8.875114e-03
211924_s_at	IAA	7.7605e-03	201753_s_at	IAA	8.891296e-03
230370_x_at	IAA	7.767939e-03	200654_at	IAA	8.918234e-03
203778_JIt	IAA	7.780889e-03	205324_s_at	IAA	8.920427e-03
202232_s_at	IAA	7.788512e-03	220052_s_at	IAA	8.938102e-03
211971_s_at	IAA	7.831334e-03	208843_s_at	IAA	8.943604e-03
222409_JLt	IAA	7.873742e-03	201661_s_at	IAA	8.958128e-03
212459_x_at	IAA	7.88595e-03	204474_at	IAA	8.990666e-03
200800_s_at	IAA	7.921623e-03	217371_s_at	IAA	8.991858e-03
201933_at	IAA	7.930456e-03	201251_at	IAA	9.019572e-03
220776_at	IAA	7.947444e-03	209798_at	IAA	9.044367e-03
208860_s_at	IAA	7.993649e-03	203261_at	IAA	9.102636e-03
204714_s_at	IAA	8.0145e-03	208117_s_at	IAA	9.108323e-03
211135_x_at	IAA	8.023124e-03	210039_s_at	IAA	9.147124e-03
213019_at	IAA	.026806e-03	218383_at	IAA	9.199698e-03
210240_s_at	IAA	8.112782e-03	208800_at	IAA	9.204127e-03
213590_at	IAA	8.156202e-03	242056_at	IAA	9.215e-03
219446_at	IAA	8.166354e-03	37950_at	IAA	9.225131e-03
202141_s_at	IAA	8.175627e-03	204297_at	IAA	9.225131e-03

2220d _s_at	IAA	9.225131e-03
1552942 _at	IAA	9.253123e-03
211133 _x_at	IAA	9.254602e-03
212616 _at	IAA	9.271883e-03
121 _at	IAA	9.280429e-03
201087 _at	IAA	9.308127e-03
210284 _s_at	IAA	9.312944e-03
204634 _at	IAA	9.320938e-03
211806 _s_at	IAA	9.326885e-03
217377 _x_at	IAA	9.334989e-03
209268 _at	IAA	9.335195e-03
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221782 _at	IAA	9.409078e-03
211678 _s_at	IAA	9.418956e-03
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222529 _at	IAA	9.460626e-03
212314 _at	IAA	9.460824e-03
204333 _s_at	IAA	9.474602e-03
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210093 _s_at	IAA	9.567413e-03
210395 _x_at	IAA	9.591381e-03
203166 _at	IAA	9.594938e-03
219296 _at	IAA	9.626187e-03
214450 _at	IAA	9.656924e-03
202136 _at	IAA	9.678885e-03
203302 _at	IAA	9.680746e-03
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208730 _x_at	IAA	9.79081e-03
202162 _s_at	IAA	9.818255e-03
203049 _s_at	IAA	9.933102e-03
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201163 _s_at	IAA	0.01	205091_x_at	IAA	0.01
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226642_s_at	IAA	0.01	209354_at	IAA	0.01
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203748_x_at	IAA	0.0011	203989_x_at	IAA	0.01
201672_s_at	IAA	0.0011	218432_at	IAA	0.01
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223014_at	IAA	0.01	212243_at	IAA	0.01
200039_s_at	IAA	0.01	208795_s_at	IAA	0.01

Probe		Type	Value	Probe		Type	Value
212170	_at	IAA	(TT(JI	203305	_at	IAA	0.01
202220	_at	IAA	0.01	204 620	_s_at	IAA	0.01
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212249_at	IAD	O.04
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239412_at	IAE	7.02e-04
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210220_at	IAE	2.333083e-03
233563_s_at	IAE	2.342062e-03
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228050_at	IAE	3.53295e-03
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201133_s_at	IAE	0.03	200665_s_at	IAE	0.03
201696_at	IAE	0.03	206959_s_at	IAE	0.03
201748_s_at	IAE	0.03	227721_at	IAE	0.04
201093_x_at	IAE	0.03	225743_at	IAE	0.04
200871_s_at	IAE	0.03	204501_at	IAE	0.04
201156_s_at	IAE	0.03	205173_x_at	IAE	0.04

2224if_s_at	IAE	0.04		213572	_s_at	IAE	0.04
214945	_at	IAE	0.04	213811	_x_at	IAE	0.04
234305	_s_at	IAE	0.04	213988	_s_at	IAE	0.04
227189	_at	IAE	0.04	213175	_s_at	IAE	0.04
219234	_x_at	IAE	0.04	213370	_s_at	IAE	0.04
204278	_s_at	IAE	0.04	214049	_x_at	IAE	0.04
219403	_s_at	IAE	0.04	212295	_s_at	IAE	0.04
222717	_at	IAE	0.04	212501	_at	IAE	0.04
202626	_s_at	IAE	0.04	212988	_x_at	IAE	0.04
217728	_at	IAE	0.04	214553	_s_at	IAE	0.04
206129	_s_at	IAE	0.04	214459	_x_at	IAE	0.04
203189	_s_at	IAE	0.04	213084	_x_at	IAE	0.04
208729	_x_at	IAE	0.04	218238	_at	IAE	0.04
204624	_at	IAE	0.04	218280	_x_at	IAE	0.04
201522	_x_at	IAE	0.04	217299	_s_at	IAE	0.04
205297	_s_at	IAE	0.04	218414	_s_at	IAE	0.04
221712	_s_at	IAE	0.04	216547	_at	IAE	0.04
1552472	_a_at	IAE	0.04	217947	_at	IAE	0.04
231173	_at	IAE	0.04	217731	_s_at	IAE	0.04
206929	_s_at	IAE	0.04	218364	_at	IAE	0.04
224467	_s_at	IAE	0.04	215909	_x_at	IAE	0.04
213340	_s_at	IAE	0.04	215109	_at	IAE	0.04
230518	_at	IAE	0.04	218098	_at	IAE	0.04
220643	_s_at	IAE	0.04	204554	_at	IAE	0.04
214552	_s_at	IAE	0.04	204081	_at	IAE	0.04
207728	_at	IAE	0.04	204258	_at	IAE	0.04
214629	_x_at	IAE	0.04	203827	_at	IAE	0.04
205763	_s_at	IAE	0.04	203574	_at	IAE	0.04
203205	_at	IAE	0.04	204872	_at	IAE	0.04
1557103	_a_at	1AE	0.04	204106	_at	IAE	0.04
222686	_s_at	1AE	0.04	204668	_at	IAE	0.04
212694	_s_at	1AE	0.04	204142	_at	IAE	0.04
215629	_s_at	1AE	0.04	204222	_s_at	IAE	0.04
211998	_at	1AE	0.04	203853	_s_at	IAE	0.04
208688	_x_at	1AE	0.04	203335	_at	IAE	0.04
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223907	_s_at	1AE	0.04	203992	_s_at	IAE	0.04
214427	_at	1AE	0.04	222125	_s_at	IAE	0.04
37425	_g_at	1AE	0.04	222557	_at	IAE	0.04
218498	_s_at	1AE	0.04	222841	_s_at	IAE	0.04
220453	_at	1AE	0.04	222480	_at	IAE	0.04
217353	_at	1AE	0.04	221558	_s_at	IAE	0.04
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210504	_at	1AE	0.04	223042	_s_at	IAE	0.04
206296	_x_at	1AE	0.04	222133	_s_at	IAE	0.04
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206861	_s_at	1AE	0.04	211995	_x_at	IAE	0.04
202000	_at	1AE	0.04	210633	_x_at	IAE	0.04
215043	_s_at	1AE	0.04	211686	_s_at	IAE	0.04
226752	_at	1AE	0.04	211999	_at	IAE	0.04
225986	_x_at	IAE	0.04	211962	_s_at	IAE	0.04
224690	_at	IAE	0.04	212075	_s_at	IAE	0.04
227569	_at	IAE	0.04	210356	_x_at	IAE	0.04
227385	_at	IAE	0.04	202100	_[at	IAE	0.04
239660	_at	IAE	0.04	202431	_s_at	IAE	0.04
231940	_at	IAE	0.04	202200	_s_at	IAE	0.04
235027	_at	IAE	0.04	203182	_s_at	IAE	0.04
230836	_at	IAE	0.04	202577	_s_at	IAE	0.04
218555	_[at	IAE	0.04	202460	_s_at	IAE	0.04
219110	_[at	IAE	0.04	205323	_s_at	IAE	0.04
218647	_s_at	IAE	0.04	206515	_at	IAE	0.04
219910	_[at	IAE	0.04	204959	_[at	IAE	0.04
219037	_[at	IAE	0.04	206060	_s_at	IAE	0.04
220175	_s_at	IAE	0.04	206559	_x_at	IAE	0.04

205842_s_at	IAE	0.04	211944_at	IAG	7.04e-04
205256_at	IAE	0.04	203590_at	IAG	7.63e-04
206752_s_at	IAE	0.04	212050_at	IAG	7.93e-04
207936_x_at	IAE	0.04	64486_at	IAG	8.14e-04
207509_s_at	IAE	0.04	219956_at	IAG	8.17e-04
207549_x_at	IAE	0.04	209653_at	IAG	8.2e-04
208885_at	IAE	0.04	212384_at	IAG	8.3e-04
208625_s_at	IAE	0.04	216652_s_at	IAG	8.71e-04
208611_s_at	IAE	0.04	212079_s_at	IAG	9.98e-04
209384_at	IAE	0.04	216251_s_at	IAG	1.033006e-03
207783_x_at	IAE	0.04	212102_s_at	IAG	1.063658e-03
208039_at	IAE	0.04	201303_at	IAG	1.08727e-03
1553749_at	IAE	0.04	221607_x_at	IAG	1.121754e-03
1570410_at	IAE	0.04	216526_x_at	IAG	1.12702e-03
200768_s_at	IAE	0.04	209009_at	IAG	1.134826e-03
1554153_a_at	IAE	0.04	35626_at	IAG	1.155905e-03
200801_x_at	IAE	0.04	201569_s_at	IAG	1.15748e-03
200077_s_at	IAE	0.04	201753_s_at	IAG	1.159953e-03
201315_x_at	IAE	0.04	202818_s_at	IAG	1.187457e-03
201872_s_at	IAE	0.04	214553_s_at	IAG	1.263653e-03
201849_at	IAE	0.04	217796_s_at	IAG	1.294393e-03
201013_s_at	IAE	0.04	202638_s_at	IAG	1.329477e-03
201726_at	IAE	0.04	212287_at	IAG	1.547918e-03
201272_at	IAE	0.04	209313_at	IAG	1.589471e-03
201258_at	IAE	0.04	220349_s_at	IAG	1.601492e-03
201570_at	IAE	0.04	209668_x_at	IAG	1.644875e-03
201529_s_at	IAE	0.04	203656_at	IAG	1.654945e-03
201054_at	IAE	0.04	204640_s_at	IAG	1.666068e-03
223380_s_at	IAE	0.04	201072_s_at	IAG	1.698658e-03
227022_at	IAE	0.04	200702_s_at	IAG	1.699015e-03
217853_at	IAE	0.04	211069_s_at	IAG	1.771339e-03
209835_x_at	IAE	0.04	211000_s_at	IAG	1.809716e-03
220777_at	IAE	0.04	219821_s_at	IAG	1.84602e-03
222067_x_at	IAE	0.04	213998_s_at	IAG	1.896524e-03
214422_at	IAE	0.04	201414_s_at	IAG	1.907781e-03
209583_s_at	IAE	0.04	221514_at	IAG	2.003432e-03
212291_at	IAE	0.04	203965_at	IAG	2.035138e-03
205863_at	IAE	0.04	213916_at	IAG	2.03615e-03
208369_s_at	IAE	0.04	203124_s_at	IAG	2.046937e-03
202917_s_at	IAE	0.04	210426_x_at	IAG	2.048308e-03
221600_s_at	IAE	0.04	204212_at	IAG	2.053087e-03
214273_x_at	IAE	0.04	201587_s_at	IAG	2.139946e-03
210627_s_at	IAE	0.04	204046_at	IAG	2.171377e-03
203674_at	IAG	1.01e-04	201633_s_at	IAG	2.174744e-03
202874_s_at	IAG	1.\31e-04	203630_s_at	IAG	2.18879e-03
211085_s_at	IAG	1.42e-04	202492_at	IAG	2.200711e-03
218754_at	IAG	1.73e-04	212451_at	IAG	2.226808e-03
212213_x_at	IAG	1.77e-04	218135_at	IAG	2.253272e-03
207618_s_at	IAG	2.48e-04	218659_at	IAG	2.302978e-03
208835_s_at	IAG	2.81e-04	218315_s_at	IAG	2.313581e-03
214843_s_at	IAG	3.88e-04	208051_s_at	IAG	2.319686e-03
212249_at	IAG	4.14e-04	222343_at	IAG	2.34273e-03
212629_s_at	IAG	4.2e-04	200051_at	IAG	2.373327e-03
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218521_s_at	IAG	4.48e-04	203147_s_at	IAG	2.508271e-03
200767_s_at	IAG	4.58e-04	200772_x_at	IAG	2.51093e-03
212218_s_at	IAG	5.01e-04	204544_at	IAG	2.519817e-03
210731_s_at	IAG	5.26e-04	202605_at	IAG	2.573875e-03
208450_at	IAG	5.59e-04	208325_s_at	IAG	2.600413e-03
202131_s_at	IAG	5.83e-04	207198_s_at	IAG	2.601674e-03
214853_s_at	IAG	5.95e-04	202626_s_at	IAG	2.624949e-03
203514_at	IAG	5.98e-04	200871_s_at	IAG	2.682533e-03
200957_s_at	IAG	6.5e-04	212643_at	IAG	2.690275e-03
203978_at	IAG	6.83e-04	213398_s_at	IAG	2.720827e-03

Probe		Value	Probe		Value
204209 _at	IAG	1.7?49?70Te-03	204366_s_at	IAG	6.131504e-03
218314 _s_at	IAG	2.751347e-03	209203_s_at	IAG	6.170708e-03
208817 _at	IAG	2.755885e-03	212588_at	IAG	6.236877e-03
219112 _at	IAG	2.777065e-03	200797_s_at	IAG	6.294021e-03
219695 _at	IAG	2.879129e-03	219543_at	IAG	6.380925e-03
210048 _at	IAG	2.994828e-03	221263_s_at	IAG	6.382976e-03
203723 _at	IAG	3.001734e-03	213214_x_at	IAG	6.468144e-03
201965 _s_at	IAG	3.109621e-03	208661_s_at	IAG	6.479928e-03
203746 _s_at	IAG	3.139861e-03	204493_at	IAG	6.524928e-03
214730 _s_at	IAG	3.153765e-03	203132_at	IAG	6.552763e-03
203054 _s_at	IAG	3.218631e-03	44146_at	IAG	6.742311e-03
202600 _s_at	IAG	3.408642e-03	209001_s_at	IAG	6.760429e-03
208152 _s_at	IAG	3.452256e-03	200060_s_at	IAG	6.884239e-03
202361 _at	IAG	3.469357e-03	203380_x_at	IAG	6.893403e-03
216438 _s_at	IAG	3.628385e-03	221563_at	IAG	6.913372e-03
58367 _si_at	IAG	3.629673e-03	214315_x_at	IAG	6.92735e-03
208624 _s_at	IAG	3.73572e-03	204669_s_at	IAG	7.116652e-03
221481 _x_at	IAG	3.870349e-03	48612_at	IAG	7.26617e-03
208684 _at	IAG	4.061779e-03	220748_s_at	IAG	7.318219e-03
210208 _x_at	IAG	4.064727e-03	200895_s_at	IAG	7.360774e-03
45526 _g_at	IAG	4.093793e-03	219540_at	IAG	7.369946e-03
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208663 _s_at	IAG	4.148347e-03	200708_at	IAG	7.389545e-03
204028 _s_at	IAG	4.223007e-03	212007_at	IAG	7.396832e-03
219593 _at	IAG	4.230516e-03	201956_s_at	IAG	7.430838e-03
201085 _s_at	IAG	4.267906e-03	201198_s_at	IAG	7.579847e-03
212047 _s_at	IAG	4.268395e-03	221864_at	IAG	7.594666e-03
212638 _s_at	IAG	4.316116e-03	220969_s_at	IAG	7.607487e-03
203335 _at	IAG	4.341122e-03	210951_x_at	IAG	7.66351e-03
219878 _s_at	IAG	4.372931e-03	203345_s_at	IAG	7.729657e-03
222105 _s_at	IAG	4.388161e-03	222244_s_at	IAG	7.808859e-03
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220646 _s_at	IAG	4.52665e-03	208946_s_at	IAG	7.855961e-03
202658 _at	IAG	4.54126e-03	202509_s_at	IAG	7.862325e-03
208660 _at	IAG	4.626556e-03	209453_at	IAG	7.912131e-03
200958 _s_at	IAG	4.653266e-03	201494_at	IAG	8.052669e-03
213650 _at	IAG	4.741285e-03	204478_s_at	IAG	8.087901e-03
211270 _x_at	IAG	4.768334e-03	208688_x_at	IAG	8.182216e-03
219870 _at	IAG	4.789132e-03	203185_at	IAG	8.206065e-03
209669 _s_at	IAG	4.78971e-03	205783_at	IAG	8.274557e-03
208859 _s_at	IAG	4.82024e-03	206515_at	IAG	8.356337e-03
34858 _at	IAG	4.862957e-03	206219_s_at	IAG	8.363564e-03
212587 _s_at	IAG	5.067577e-03	208974_x_at	IAG	8.365858e-03
217499 _x_at	IAG	5.079111e-03	200861_at	IAG	8.396369e-03
218398 _at	IAG	5.101508e-03	33760_at	IAG	8.402577e-03
217732 _s_at	IAG	5.117337e-03	208042_at	IAG	8.483872e-03
208961 _s_at	IAG	5.242419e-03	218378_s_at	IAG	8.497553e-03
220735 _s_at	IAG	5.332079e-03	220355_s_at	IAG	8.58496e-03
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218806 _s_at	IAG	5.383513e-03	219399_at	IAG	8.64639βe-03
218168 _s_at	IAG	5.402092e-03	220945_x_at	IAG	8.656949e-03
217644 _s_at	IAG	5.442792e-03	204638_at	IAG	8.705879e-03
201770 _at	IAG	5.443484e-03	205462_s_at	IAG	8.748628e-03
218941 _at	IAG	5.462263e-03	217775_s_at	IAG	8.760763e-03
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208003 _s_at	IAG	5.64428e-03	218116_at	IAG	8.822656e-03
200045 _at	IAG	5.702059e-03	207104_x_at	IAG	8.82447e-03
203377 _s_at	IAG	5.739837e-03	203247_s_at	IAG	8.857666e-03
37796 _at	IAG	5.793659e-03	203351_s_at	IAG	8.92903e-03
208900 _s_at	IAG	5.817748e-03	201491_at	IAG	8.930601e-03
211725 _s_at	IAG	5.846683e-03	201859_at	IAG	8.985382e-03
219189 _at	IAG	5.88903e-03	219334_s_at	IAG	9.004632e-03
220800 _s_at	IAG	6.031258e-03	218187_s_at	IAG	9.012184e-03

207724_s_at	IAG	9.02166e-03	213011_s_at	IAG	0.01
205383_s_at	IAG	9.187547e-03	213887_s_at	IAG	0.01
201557_at	IAG	9.200722e-03	218082_s_at	IAG	0.01
218160_at	IAG	9.210103e-03	210172_at	IAG	0.01
200015_s_at	IAG	9.286343e-03	200998_s_at	IAG	0.01
205585_at	IAG	9.376354e-03	201231_s_at	IAG	0.01
202304_at	IAG	9.445583e-03	201417_at	IAG	0.01
201541_s_at	IAG	9.471858e-03	207320_x_at	IAG	0.01
205340_at	IAG	9.664981e-03	33148_at	IAG	0.01
201182_s_at	IAG	9.68555e-03	200097_s_at	IAG	0.01
212152]_x_at	IAG	9.714539e-03	212814_at	IAG	0.01
AFFX-			201544_x_at	IAG	0.01
hum_alu_at	IAG	9.780781e-03	212599_at	IAG	0.01
221506_s_at	IAG	9.787779e-03	200694_s_at	IAG	0.01
212320_at	IAG	9.820953e-03	204352_at	IAG	0.01
201861_s_at	IAG	9.927428e-03	221216_s_at	IAG	0.01
217959_s_at	IAG	0.01	202335_s_at	IAG	0.01
209682_at	IAG	0.01	204089_x_at	IAG	0.01
200049_at	IAG	0.01	217899_at	IAG	0.01
217783_s_at	IAG	0.01	221553_at	IAG	0.01
212220_at	IAG	0.01	217944_at	IAG	0.01
200647_x_at	IAG	0.01	212897_at	IAG	0.01
200072_s_at	IAG	0.01	203831_at	IAG	0.01
213980_s_at	IAG	0.01	202021_x_at	IAG	0.01
216304_x_at	IAG	0.01	206968_s_at	IAG	0.01
205305_at	IAG	0.01	205105_at	IAG	0.01
218912_at	IAG	0.01	210010_s_at	IAG	0.01
215416_s_at	IAG	0.01	32029_at	IAG	0.01
210057_at	IAG	0.01	212369_at	IAG	0.01
200920_s_at	IAG	0.01	208056_s_at	IAG	0.01
219202_at	IAG	0.01	218474_s_at	IAG	0.01
201550_x_at	IAG	0.01	202135_s_at	IAG	0.01
208895_s_at	IAG	0.01	218966_at	IAG	0.01
210649_s_at	IAG	0.01	203923_s_at	IAG	0.01
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205988_at	IAG	0.01	202261_at	IAG	0.01
203006_at	IAG	0.01	214012_at	IAG	0.01
218258_at	IAG	0.01	221804_s_at	IAG	0.01
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201010_s_at	IAG	0.01	213378_s_at	IAG	0,.01
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211065_x_at	IAG	0.01	202129_s_at	IAG	0.01
208676_s_at	IAG	0.01	204808_s_at	IAG	0.01
204060_s_at	IAG	0.01	202230_s_at	IAG	0.01
212429_s_at	IAG	0.01	207727_s_at	IAG	0.01
213603_s_at	IAG	0.01	210926_at	IAG	0.01
203992_s_at	IAG	0.01	204873_at	IAG	0.01
202855_s_at	IAG	0.01	221516_s_at	IAG	0.01
208106_x_at	IAG	0.01	211671_s_at	IAG	0.01
220097_s_at	IAG	0.01	203900_at	IAG	0.01
207604_s_at	IAG	0.01	202068_s_at	IAG	0.01
211970_x_at	IAG	0.01	210105_s_at	IAG	0.01
207416_s_at	IAG	0.01	201511_at	IAG	0.01
218967_s_at	IAG	0.01	205955_at	IAG	0.01
210428_s_at	IAG	0.01	200011_s_at	IAG	0.01
212636_at	IAG	0.01	203760_s_at	IAG	0.01

204864_s_at	1AG 0.01		201695_s_at	1AG 0.01
212953_x_at	1AG 0.01		45749_at	1AG 0.01
204084_s_at	1AG 0.01		214500_at	1AG 0.01
214112_s_at	1AG 0.01		213825_at	1AG 0.01
214007_s_at	1AG 0.01		203497_at	1AG 0.01
212831_at	1AG 0.01		201297_s_at	1AG 0.01
205045_at	1AG 0.01		210081_at	1AG 0.01
212356_at	1AG 0.01		201288_at	1AG 0.01
217097_s_at	1AG 0.01		216295_s_at	1AG 0.01
217788_s_at	1AG 0.01		219975_x_at	1AG 0.01
218156_s_at	1AG 0.01		213708_s_at	1AG 0.01
209799_at	1AG 0.01		203162_s_at	1AG 0.01
219489_s_at	1AG 0.01		204251_s_at	1AG 0.01
204373_s_at	1AG 0.01		205198_s_at	1AG 0.01
211982_x_at	1AG 0.01		200773_x_at	1AG 0.01
52159_at	1AG 0.01		205126_at	1AG 0.01
207677_s_at	1AG 0.01		204449_at	1AG 0.02
202867_s_at	1AG 0.01		214697_s_at	1AG 0.02
203703_s_at	1AG 0.01		213931_at	1AG 0.02
213974_at	1AG 0.01		218198_at	1AG 0.02
207498_s_at	1AG 0.01		218020_s_at	1AG 0.02
209161_at	1AG 0.01		202331_at	1AG 0.02
201696_at	1AG 0.01		201319_at	1AG 0.02
207627_s_at	1AG 0.01		219017_at	1AG 0.02
203599_s_at	1AG 0.01		200617_at	1AG 0.02
204283_at	1AG 0.01		209329_x_at	1AG 0.02
211474_s_at	1AG 0.01		214132_at	1AG 0.02
218465_at	1AG 0.01		207922_s_at	1AG 0.02
208878_s_at	1AG 0.01		206235_at	1AG 0.02
213216_at	1AG 0.01		204034_at	1AG 0.02
201320_at	1AG 0.01		219071_x_at	1AG 0.02
201244_s_at	1AG 0.01		209257_s_at	1AG 0.02
219350_s_at	1AG 0.01		203864_s_at	1AG 0.02
213446_s_at	1AG 0.01		202379_s_at	1AG 0.02
208488_s_at	1AG 0.01		214698_at	1AG 0.02
204781_s_at	1AG 0.01		208579_x_at	1AG 0.02
219834_at	1AG 0.01		201771_at	1AG 0.02
204630_s_at	1AG 0.01		200911_s_at	1AG 0.02
200851_s_at	1AG 0.01		218004_at	1AG 0.02
218242_s_at	1AG 0.01		217818_s_at	1AG 0.02
217576_x_at	1AG 0.01		202220_at	1AG 0.02
202513_s_at	1AG 0.01		202394_s_at	1AG 0.02
209231_s_at	1AG 0.01		222035_s_at	1AG 0.02
202180_s_at	1AG 0.01		203551_s_at	1AG 0.02
33322_i_at	1AG 0.01		35617_at	1AG 0.02
215947_s_at	1AG 0.01		218471_s_at	1AG 0.02
202122_s_at	1AG 0.01		216231_s_at	1AG 0.02
202368_s_at	1AG 0.01		207908_at	1AG 0.02
212229_s_at	1AG 0.01		215737_x_at	1AG 0.02
200759_x_at	1AG 0.01		212257_s_at	1AG 0.02
212123_at	1AG 0.01		201500_s_at	1AG 0.02
202757_at	1AG 0.01		211075_s_at	1AG 0.02
209375_at	1AG 0.01		200919_at	1AG 0.02
200785_s_at	1AG 0.01		211702_s_at	1AG 0.02
202317_s_at	1AG 0.01		201623_s_at	1AG 0.02
51228_at	1AG 0.01		209044_x_at	1AG 0.02
35265_at	1AG 0.01		212917_x_at	1AG 0.02
40149_at	1AG 0.01		206846_s_at	1AG 0.02
222010_at	1AG 0.01		205559_s_at	1AG 0.02
219906_at	1AG 0.01		216088_s_at	1AG 0.02
220187_at	1AG 0.01		208351_s_at	1AG 0.02
219797_at	1AG 0.01		209711_at	1AG 0.02
203267_s_at	1AG 0.01		218249_at	1AG 0.02
215794_x_at	1AG 0.01		215399_s_at	1AG 0.02

221264_at	IAG	0.02
209166_s_at	IAG	0.02
204572_s_at	IAG	0.02
202217_at	IAG	0.02
214339_s_at	IAG	0.02
209140_x_at	IAG	0.02
206207_at	IAG	0.02
212661_x_at	IAG	0.02
218204_s_at	IAG	0.02
210461_s_at	IAG	0.02
209878_s_at	IAG	0.02
200054_at	IAG	0.02
212674_s_at	IAG	0.02
211230_s_at	IAG	0.02
49077_at	IAG	0.02
221080_s_at	IAG	0.02
214430_at	IAG	0.02
220791_x_at	IAG	0.02
208872_s_at	IAG	0.02
218455_at	IAG	0.02
209743_s_at	IAG	0.02
211951_at	IAG	0.02
217269_s_at	IAG	0.02
213501_at	IAG	0.02
214585_s_at	IAG	0.02
212251_at	IAG	0.02
45653_at	IAG	0.02
220908__at	IAG	0.02
201935_s_at	IAG	0.02
205545_x_at	IAG	0.02
211576_s_at	IAG	0.02
213646_x_at	IAG	0.02
214726_x_at	IAG	0.02
200033_at	IAG	0.02
202991_at	IAG	0.02
218138_at	IAG	0.02
218203_at	IAG	0.02
217526_at	IAG	0.02
203602_s_at	IAG	0.02
207094_at	IAG	0.02
221867_at	IAG	0.02
206829_x_at	IAG	0.02
204236_at	IAG	0.02
219423_x_at	IAG	0.02
209286_at	IAG	0.02
209363_s_at	IAG	0.02
202364_at	IAG	0.02
221071_at	IAG	0.02
201992_s_at	IAG	0.02
209154__at	IAG	0.02
218155_x_at	IAG	0.02
218920_at	IAG	0.02
221745_at	IAG	0.02
209916_at	IAG	0.02
204849_at	IAG	0.02
218079_s_at	IAG	0.02
213198_at	IAG	0.02
206907_at	IAG	0.02
213009_s_at	IAG	0.02
214938_x_at	IAG	0.02
206244_at	IAG	0.02
218831_s_at	IAG	0.02
218443_s_at	IAG	0.02
205790_at	IAG	0.02
204290_s_at	IAG	0.02
212860_at	IAG	0.02
53968_at	IAG	0.02
201888_s_at	IAG	0.02
209615_s_at	IAG	0.02
31845_at	IAG	0.02
209627_s_at	IAG	0.02
206113_s_at	IAG	0.02
212744_at	IAG	0.02
219492_at	IAG	0.02
219234_x_at	IAG	0.02
203258_at	IAG	0.02
214662_at	IAG	0.02
213524_s_at	IAG	0.02
202047_s_at	IAG	0.02
203825_at	IAG	0.02
218981_at	IAG	0.02
211168_s_at	IAG	0.02
206613_s_at	IAG	0.02
201498_at	IAG	0.02
218871_x_at	IAG	0.02
206583_at	IAG	0.02
221235_s_at	IAG	0.02
217724_at	IAG	0.02
219941_at	IAG	0.02
201132_at	IAG	0.02
207111_at	IAG	0.02
217830_s_at	IAG	0.02
214170_x_at	IAG	0.02
211330_s_at	IAG	0.02
203311_s_at	IAG	0.02
216396_s_at	IAG	0.02
212895_s_at	IAG	0.02
213932_x_at	IAG	0.02
209500_x_at	IAG	0.02
219158_s_at	IAG	0.02
213554_s_at	IAG	0.02
201306_s_at	IAG	0.02
217958_at	IAG	0.02
210443_x_at	IAG	0.02
201758_at	IAG	0.02
213370_s_at	IAG	0.02
213226_at	IAG	0.02
213239_at	IAG	0.02
218721_s_at	IAG	0.02
210647_x_at	IAG	0.02
202408_s_at	IAG	0.02
221419_s_at	IAG	0.02
210506_at	IAG	0.02
214355_x_at	IAG	0.02
217814_at	IAG	0.02
202069_s_at	IAG	0.02
203169_at	IAG	0.02
207081_s_at	IAG	0.02
206949_s_at	IAG	0.02
218401_s_at	IAG	0.02
201225_s_at	IAG	0.02
212246_at	IAG	0.02
220023_at	IAG	0.02
218614_at	IAG	0.02
218764_at	IAG	0.02
209882_at	IAG	0.02
219086_at	IAG	0.02
216901_s_at	IAG	0.02

Probe	Flag	Value	Probe	Flag	Value
40359_at	IAG	TJFTD 2	217736_s_at	IAG	0.03
221539_at	IAG	0.02	2077 60_s_at	IAG	0.03
205600_x_at	IAG	0.02	202842_s_at	IAG	0.03
202797_at	IAG	0.02	204328_at	IAG	0.03
202522_at	IAG	0.02	2117 60_s_at	IAG	0.03
209115_at	IAG	0.02	210027_s_at	IAG	0.03
201153_s_at	IAG	0.02	203668_at	IAG	0.03
213185_at	IAG	0.02	203221_at	IAG	0.03
208914_at	IAG	0.03	212616_at	IAG	0.03
210146_x_at	IAG	0.03	218103_at	IAG	0.03
215299_x_at	IAG	0.03	219487_at	IAG	0.03
220088_at	IAG	0.03	35150_at	IAG	0.03
219013_at	IAG	0.03	209766_at	IAG	0.03
213349_at	IAG	0.03	202264_s_at	IAG	0.03
201368_at	IAG	0.03	202565_s_at	IAG	0.03
220132_s_at	IAG	0.03	214615_at	IAG	0.03
57703_at	IAG	0.03	221550_at	IAG	0.03
207815_at	IAG	0.03	211759_x_at	IAG	0.03
203600_s_at	IAG	0.03	204571_x_at	IAG	0.03
201782_s_at	IAG	0.03	204703_at	IAG	0.03
212492_s_at	IAG	0.03	218284_at	IAG	0.03
218150_at	IAG	0.03	213607_x_at	IAG	0.03
217094_s_at	IAG	0.03	208158_s_at	IAG	0.03
219128_at	IAG	0.03	207855_s__at	IAG	0.03
202985_s_at	IAG	0.03	217 836_s_at	IAG	0.03
211801_x_at	IAG	0.03	217216_x_at	IAG	0.03
202479_s_at	IAG	0.03	212640_at	IAG	0.03
201126_s_at	IAG	0.03	2192 66_at	IAG	0.03
217806_s_at	IAG	0.03	21452 6_x_at	IAG	0.03
209055_s_at	IAG	0.03	21134 2_x_at	IAG	0.03
208873_s_at	IAG	0.03	207 338_s_at	IAG	0.03
200989_at	IAG	0.03	212130_x_at	IAG	0.03
201043_s_at	IAG	0.03	218209_s_ar	IAG	0.03
208795_s_at	IAG	0.03	218068_s_at	IAG	0.03
219110_at	IAG	0.03	200761_s_at	IAG	0.03
213545_x_at	IAG	0.03	201705_at	IAG	0.03
208685_x_at	IAG	0.03	200027_at	IAG	0.03
200988_s_at	IAG	0.03	202558__s_at	IAG	0.03
210971_s_at	IAG	0.03	208920_at	IAG	0.03
200747_s_at	IAG	0.03	60528_at	IAG	0.03
218036_x_at	IAG	0.03	200730_s_at	IAG	0.03
217917_s_at	IAG	0.03	203159_at	IAG	0.03
200825_s_at	IAG	0.03	210095_s_at	IAG	0.03
203752_s_at	IAG	0.03	200021_at	IAG	0.03
218111_s_at	IAG	0.03	202303_x_at	IAG	0.03
202474_s_at	IAG	0.03	34868_at	IAG	0.03
219297_at	IAG	0.03	220083_x_at	IAG	0.03
213956_at	IAG	0.03	209583_s_at	IAG	0.03
220338_at	IAG	0.03	21194 0_x_at	IAG	0.03
200850_s_at	IAG	0.03	215109_at	IAG	0.03
208957_at	IAG	0.03	208843_s_at	IAG	0.03
220954_s_at	IAG	0.03	208815_x_at	IAG	0.03
205218_at	IAG	0.03	22105 9_s_at	IAG	0.03
201783_s_at	IAG	0.03	202185_at	IAG	0.03
201293_x_at	IAG	0.03	209064_x_at	IAG	0.03
46256_at	IAG	0.03	211978_x_at	IAG	0.03
220252_x_at	IAG	0.03	212460_at	IAG	0.03
219092_s_at	IAG	0.03	218506_x_at	IAG	0.03
220079_s_at	IAG	0.03	216221_s_at	IAG	0.03
206723_s_at	IAG	0.03	203823_at	IAG	0.03
208634_s_at	IAG	0.03	91684_g_at	IAG	0.03
208035_at	IAG	0.03	215708_s_at	IAG	0.03
201680_x_at	IAG	0.03	212582_at	IAG	0.03
200812_at	IAG	0.03	203118_at	IAG	0.03

201353_sfa'i	IAG	0.03	221569 _at	IAG	0.04
204 529_s_at	IAG	0.03	207394 _at	IAG	0.04
202922_at	IAG	0.03	210176 _at	IAG	0.04
209212_s_at	IAG	0.03	201479 _at	IAG	0.04
2084 38_s_at	IAG	0.03	201321 _s_at	IAG	0.04
218129_s_at	IAG	0.03	218010 _x_at	IAG	0.04
202740_at	IAG	0.03	203572 _s_at	IAG	0.04
205471_s_at	IAG	0.03	218460 _at	IAG	0.04
208934_s_at	IAG	0.03	212230 _at	IAG	0.04
201901_s_at	IAG	0.03	218581 _at	IAG	0.04
221260_s_at	IAG	0.03	209765 _at	IAG	0.04
203932_at	IAG	0.03	213090 _s_at	IAG	0.04
202039_at	IAG	0.03	213835 _x_at	IAG	0.04
204177_s_at	IAG	0.03	208862 _s_at	IAG	0.04
200822_x_at	IAG	0.03	201456 _s_at	IAG	0.04
207782_s_at	IAG	0.03	208797 _s_at	IAG	0.04
22104 6_s_at	IAG	0.03	212015 _x_at	IAG	0.04
204 405_x_at	IAG	0.03	203533 _s_at	IAG	0.04
2017 68_s_at	IAG	0.03	201413 _at	IAG	0.04
208858_s_at	IAG	0.03	219618 _at	IAG	0.04
211961_s_at	IAG	0.03	210240 _s_at	IAG	0.04
20578 6_s__at	IAG	0.03	202388 _at	IAG	0.04
200645_at	IAG	0.03	218301 _at	IAG	0.04
215222__x_at	IAG	0.03	203249 _at	IAG	0.04
204700_x_at	IAG	0.03	212885 _at	IAG	0.04
208289_s_at	IAG	0.03	210772 _at	IAG	0.04
218970_s_at	IAG	0.03	204170 _s_at	IAG	0.04
218987_at	IAG	0.03	200799 _at	IAG	0.04
200758_s_at	IAG	0.03	214459 _x_at	IAG	0.04
220015_at	IAG	0.03	214054 _at	IAG	0.04
218841_at	IAG	0.03	202051 _s_at	IAG	0.04
206036_s_at	IAG	0.03	219484 _at	IAG	0.04
218444_at	IAG	0.03	52169 _at	3AG	0.04
219220_x_at	IAG	0.03	209949 _at	IAG	0.04
218255_s_at	IAG	0.03	218053 _at	IAG	0.04
218419_s_at	IAG	0.03	208824 _x_at	IAG	0.04
202917_s_at	IAG	0.03	220210 _at	IAG	0.04
51192_at	IAG	0.03	208921 _s_at	IAG	0.04
221229_s_at	IAG	0.03	213566 _at	IAG	0.04
211163_s__at	IAG	0.03	213278 _at	IAG	0.04
221647_s_at	IAG	0.03	201295 _s_at	IAG	0.04
201735_s_at	IAG	0.03	218012 _at	IAG	0.04
202461_at	IAG	0.03	201670 _s_at	IAG	0.04
214 709_s_at	IAG	0.03	209438 _at	IAG	0.04
20914 9_s_at	IAG	0.03	204480 _s_at	IAG	0.04
216306_x_at	IAG	0.03	222132 _s_at	IAG	0.04
215357_s_at	IAG	0.03	203139 _at	IAG	0.04
21077 6_x_at	IAG	0.03	220941 _s_at	IAG	0.04
209143_s_at	IAG	0.03	214531 _s_at	IAG	0.04
201914_s_at	IAG	0.03	203456 _at	IAG	0.04
212782_x_at	IAG	0.03	212252 _at	IAG	0.04
217734_s_at	IAG	0.03	202393 _s_at	IAG	0.04
201891_s__at	IAG	0.03	204633 _s_at	IAG	0.04
222000_at	IAG	0.03	202058 _s_at	IAG	0.04
2088 61_s_at	IAG	0.03	207361 _at	IAG	0.04
203175_at	IAG	0.04	201942 _s_at	IAG	0.04
202182_at	IAG	0.04	213056 'at	IAG	0.04
221220_s_at	IAG	0.04	217197 _x_at	IAG	0.04
202292_x_at	IAG	0.04	206562 _s_at	IAG	0.04
202038_at	IAG	0.04	217819 _at	IAG	0.04
219384_s_at	IAG	0.04	209853 _s_at	IAG	0.04
201828_x_at	IAG	0.04	220948 _s_at	IAG	0.04
201024_x_at	IAG	0.04	204202 _at	IAG	0.04
219392 _x_at	IAG	0.04	212869 _x_at	IAG	0.04

212852 _s_at	1AG	07 01
202899 _s_at	IAG	0.04
218049 _s_at	IAG	0.04
204771 _s_at	IAG	0.04
212969 _x_at	IAG	0.04
203936 _s_at	IAG	0.04
201076 _at	IAG	0.04
219292 _at	IAG	0.04
207122 _x_at	IAG	0.04
202758 _s_at	IAG	0.04
209604 _s_at	IAG	0.04
200889 _s_at	IAG	0.04
200696 _s_at	IAG	0.04
202173 _s_at	IAG	0.04
209685 _s_at	IAG	0.04
213460 _x_at	IAG	0.04
209301 _at	IAG	0.04
222209 _s_at	IAG	0.04
213867 _x_at	IAG	0.04
201073 _s_at	IAG	0.04
208101 _s_at	IAG	0.04
201729 _s_at	IAG	0.04
219848 _s_at	IAG	0.04
202025 _x_at	IAG	0.04
222046 _at	IAG	0.04
201101 _s_at	IAG	0.04
212380 _at	IAG	0.04
217299 _s_at	IAG	0.04
208812 _x_at	IAG	0.04
203575 _at	IAG	0.04
211417 _x_at	IAG	0.04
211160 _x_at	IAG	0.04
204169 _at	IAG	0.04
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201946 _s_at	IAH	2.06e-04
205298 _s_at	IAH	2.1e-04
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220659 _s_at	IAH	2.76e-04
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202516_s_at	IAH	9.393746e-03	217965_s_at	IAH	0.01
204842_x_at	IAH	9.407722e-03	208309_s_at	IAH	0.01
220956_s_at	IAH	9.479225e-03	203320_at	IAH	0.01
221702_s_at	IAH	9.48591e-03	210555_s_at	IAH	0.01
202944_at	IAH	9.515211e-03	205323_s_at	IAH	0.01
201686_x_at	IAH	9.5258e-03	213203_at	IAH	0.01
221314_at	IAH	9.661915e-03	210443_x_at	IAH	0.01
201411_s_at	IAH	9.671987e-03	212527_at	IAH	0.01
203607_at	IAH	9.744285e-03	213168_at	IAH	0.01
204502_at	IAH	9.746366e-03	211989_at	IAH	0.01
206042_x_at	IAH	9.86405e-03	213825_at	IAH	0.01

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209332_s_at	1AH	0.01	221222_s_at	1AH	0.01
200664_s_at	1AH	0.01	206138_s_at	1AH	0.01
214658_at	1AH	0.01	212543_at	1AH	0.01
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201086_x_at	1AH	0.01	217812_at	1AH	0.01
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441

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205322_s_at	IAH	0.04		212860_at	IAH	0.04
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207223_s_at	IAH	0.04		205988_at	IAH	0.04
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219761_at	IAH	0.04		202943_s_at	IAH	0.04
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64432_at	IAH	0.04		200042_at	IAH	0.04
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219860_at	IAH	0.04		202033_s_at	IAH	0.04
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212919_at	IAH	0.04		203155_at	IAH	0.04

Probe	Call	Value
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200621_at	IAH	0.04
206113_s_at	IAH	0.04
214252_s_at	IAH	0.04
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207688_s_at	IAI	1.53e-05
2027 79_s_at	IAI	1.91e-05
204470_at	IAI	2.3e-05
201739_at	IAI	2.63e-05
224365_s_at	IAI	3.27e-05
221555_x_at	IAI	3.68e-05
224 946_s_at	IAI	5.89e-05
235113_at	IAI	5.89e-05
228556_at	IAI	5.89e-05
242774_at	IAI	5.89e-05
219582_at	IAI	5.89e-05
213932_x_at	IAI	5.89e-05
204748_at	IAI	5.89e-05
203547_at	IAI	5.89e-05
2217 91_s_at	IAI	5.89e-05
202416_at	IAI	5.89e-05
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205511_at	IAI	5.89e-05
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1552644_a_at	IAI	5.89e-05
1553538_s_at	IAI	5.89e-05
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206323_x_at	IAI	1.18e-04
238701_x_at	IAI	1.22e-04
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222737_s_at	IAI	1.55e-04
224474_x_at	IAI	1.88e-04
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2128 69_x_at	IAI	1.88e-04
213998_s_at	IAI	1.88e-04
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1554 997_a_at	IAI	1.88e-04
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213867_x_at	IAI	2.32e-04
2227 48_s_at	IAI	2.47e-04
219818_s_at	IAI	2.75e-04
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23544 9_at	IAI	3.55e-04
223226_x_at	IAI	3.58e-04
212 966_at	IAI	3.9e-04
213775_x_at	IAI	4.27e-04
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221628_s_at	IAI	4.92e-04
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237813_at	IAI	5.21e-04
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220072_at	IAI	5.67e-04
66053_at	IAI	6.02e-04
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203147_s_at	IAI	7.21e-04
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205041_s_at	IAI	8.22e-04
224585_x_at	IAI	8.39e-04
217892_s_at	IAI	8.48e-04
202412_s_at	IAI	9.4e-04
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238810_at	IAI	9.79e-04
201041_s_at	IAI	1.033142e-03
223018_at	IAI	1.052826e-03
201714_at	IAI	1.052826e-03
207993_s_at	IAI	1.109268e-03
225092_at	IAI	1.113154e-03
231776_at	IAI	1.113154e-03
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216231_s_at	IAI	1.113154e-03
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223346_at	IAI	1.113154e-03
223339_at	IAI	1.113154e-03
211970_x_at	IAI	1.113154e-03
202348_s_at	IAI	1.113154e-03
202662_s_at	IAI	1.113154e-03
203029_s_at	IAI	1.113154e-03
202092_s_at	IAI	1.113154e-03
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207426_s_at	IAI	1.113154e-03

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208997_s_at	IAI	1.113154e-03
208904_s_at	IAI	1.113154e-03
208729_x_at	IAI	1.113154e-03
207980_s_at	IA1	1.113154e-03
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1554152_a_at	IAI	1.113154e-03
201318_s_at	IAI	1.113154e-03
201492_s_at	IAI	1.113154e-03
201137_s_at	IAI	1.113154e-03
201049_s_at	IAI	1.113154e-03
201140_s_at	IAI	1.113154e-03
201631_s_at	IA1	1.113154e-03
201469_s_at	IAI	1.113154e-03
215948_x_at	IAI	1.164581e-03
200763_s_at	IAI	1.165665e-03
210627_s_at	IAI	1.198112e-03
212988_x_at	IAI	1.268911e-03
206405_x_at	IAI	1.269832e-03
228993_s_at	IAI	1.282065e-03
201085_s_at	IAI	1.373927e-03
234981_x_at	IAI	1.411073e-03
221607_x_at	IAI	1.466337e-03
219096_at	IAI	1.530057e-03
202551_s_at	IAI	1.530057e-03
221550_at	IAI	1.548827e-03
215111_s_at	IAI	1.556807e-03
209357_at	IAI	1.608023e-03
224727_at	IAI	1.678702e-03
211084_x_at	IAI	1.698177e-03
204524_at	IAI	1.716415e-03
208873_s_at	IAI	1.718394e-03
225751_at	IAI	1.744718e-03
200077_s_at	IAI	1.790433e-03
223230_at	IAI	1.8364e-03
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210757_x_at	IAI	1.924219e-03
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235463_s_at	IAI	1.940561e-03
225617_at	IAI	1.946318e-03
217753_s_at	IAI	1.94799e-03
215260_s_at	IAI	1.986657e-03
236614_at	IAI	2.013973e-03
212945_s_at	IAI	2.104781e-03
205510_s_at	IAI	2.11391e-03
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224906_at	IAI	2.253684e-03
223915_at	IAI	2.253684e-03
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219774_at	IAI	2.253684e-03
218972_at	IAI	2.253684e-03
220363_s_at	IAI	2.253684e-03
214459_x_at	IAI	2.253684e-03
214012_at	IAI	2.253684e-03

212790_x_at	IAI	2.253684e-03
215718_s_at	IAI	2.253684e-03
216526_x_at	IAI	2.253684e-03
217028_at	IAI	2.253684e-03
217924_at	IAI	2.253684e-03
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202697_at	IAI	2.253684e-03
202750_s_at	IAI	2.253684e-03
203012_x_at	IAI	2.253684e-03
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202760_s_at	IAI	2.253684e-03
202078_at	IAI	2.253684e-03
202919_at	IAI	2.253684e-03
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1552323_s_at	IAI	2.253684e-03
1552541_at	IAI	2.253684e-03
1555407_s_at	IAI	2.253684e-03
201721_s_at	IAI	2.253684e-03
201891_s_at	IAI	2.253684e-03
201316_at	IAI	2.253684e-03
201257_x_at	IAI	2.253684e-03
229061_s_at	IAI	2.25651e-03
220328_at	IAI	2.31088e-03
203983_at	IAI	2.349556e-03
213476_x_at	IAI	2.434679e-03
203606_at	IAI	2.461504e-03
219467_at	IAI	2.504392e-03
200047_s_at	IAI	2.506856e-03
37201_at	IAI	2.554042e-03
208643_s_at	IAI	2.560821e-03
218887_at	IAI	2.604001e-03
215100_at	IAI	2.604001e-03
225994_at	IAI	2.666423e-03
232209_x_at	IAI	2.704677e-03
200769_s_at	IAI	2.721252e-03
209599_s_at	IAI	2.849272e-03
1568934_at	IAI	2.942078e-03
222602_at	IAI	3.005566e-03
1567080_s_at	IAI	3.051238e-03
211956_s_at	IAI	3.123759e-03
214908_s_at	IAI	3.130551e-03
219557_s_at	IAI	3.148341e-03
203107_x_at	IAI	3.151716e-03
210718_s_at	IAI	3.229165e-03
225507_at	IAI	3.303458e-03
200812_at	IAI	3.431653e-03
213224_s_at	IAI	3.440986e-03
238462_at	IAI	3.475246e-03
213702_x_at	IAI	3.498378e-03
230214_at	IAI	3.50832e-03
201010_s_at	IAI	3.533007e-03
210338_s_at	IAI	3.584344e-O3
203333_at	IAI	3.608958e-03
221466_at	IAI	3.608958e-03

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218987 _at	IAI	3.650537e-03	201044 _x_at	IAI	4.184226e-03
225420 _at	IAI	3.662468e-03	201405 _s_at	IAI	4.184226e-03
243927 _x_at	IAI	3.662468e-03	201236 _s_at	IAI	4.184226e-03
202166 _s_at	IAI	3.745021e-03	201811 _x_at	IAI	4.184226e-03
224614 _at	IAI	3.751643e-03	201409 _s_at	IAI	4.184226e-03
200871 _s_at	IAI	3.792931e-03	1568856 _at	IAI	4.204851e-03
214321 _at	IAl	3.793306e-03	1555091 _at	IAI	4.263479e-03
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203899 _s_at	IAI	3.855093e-03	210426 _x_at	IAI	4.525997e-03
203535 _at	IAI	3.870907e-03	212856 _at	IAI	4.657532e-03
202090 _s_at	IAI	3.888617e-03	91684 _g_at	IAI	4.732743e-03
231863 _at	IAI	3.888873e-03	209185 _s_at	IAI	4.82818e-03
203253 _s_at	IAI	3.933152e-03	201235 _s_at	IAI	4.868951e-03
225399 _at	IAI	3.96668e-03	228923 _at	IAI	4.968676e-03
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203377 _s_at	IAI	4.06717e-03	202788 _at	IAI	5.123422e-03
218443 _s_at	IAI	4.087244e-03	203680 _at	IAI	5.135689e-03
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219269 _at	IAI	4.107016e-03	218204 _s_at	IAI	5.20151e-03
204847 _at	IAI	4.183134e-03	206734 _at	IAI	5.274392e-03
223750 _s_at	IAI	4.184226e-03	213859 _x_at	IAI	5.370779e-03
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229563 _s_at	IAI	4.184226e-03	211990 _at	IAI	5.620452e-03
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221194 _s_at	IAI	4.184226e-03	200073 _s_at	IAI	6.19521e-03
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206565 _x_at	IAI	4.184226e-03	231999 _at	IAI	6.442045e-03
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208459 _s_at	IAI	4.184226e-03	201153 _s_at	IAI	6.633821e-03
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1553133 _at	IAI	4.184226e-03	219016 _at	IAI	6.8759e-03
200689 _x_at	IAI	4.184226e-03	230528 _s_at	IAI	6.93583e-03
200716 _x_at	IAI	4.184226e-03	235520 _at	IAI	6.965684e-03
200032 _s_at	IAI	4.184226e-03	238449 _at	IAI	6.965684e-03
1555522 _s_at	IAI	4.184226e-03	219646 _at	IAI	6.965684e-03

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218168 _s_at	IAI	6.976262e-03	208453 _s_at	IAI	7.243926e-03
222103 _at	IAI	7.004804e-03	208825 _x_at	IAl	7.243926e-03
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200099 _s_at	IAI	7.094449e-03	209251 _x_at	IAI	7.243926e-03
201556 _s_at	IAI	7.170752e-03	208887 _at	IAI	7.243926e-03
202775 _s_at	IAI	7.179637e-03	208612 _at	IAI	7.243926e-03
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228408 _s_at	IAI	7.243926e-03	1554429 __a_at	IAI	7.243926e-03
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221700 _s_at	IAI	7.243926e-03	222777_s_at	IAI	7.73367e-03
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210568 _s_at	IAI	7.243926e-03	226239_at	IAI	7.820747e-03
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202164 _s_at	IAI	7.243926e-03	36936_at	IAI	7.952575e-03
202315 _s_at	IAI	7.243926e-03	217620_s_at	IAI	7.979239e-03
202345 _s_at	IAI	7.243926e-03	216091_s_at	IAI	8.090565e-03
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206090 _s_at	IAI	7.243926e-03	212378_at	IAI	8.213787e-03
205632 _s_at	IAI	7.243926e-03	203796 _s_at	IAI	8.237354e-03

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222441_x_at	IAI	9.351956e-03
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AFFX-HSACO 7/		
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207243_s_at	IAI	0.03	219694_at	IAI	0.03
239647_at	IAI	0.03	219023_at	IAI	0.03
216933_x_at	IAI	0.03	219996_at	IAI	0.03
201380_at	IAI	0.03	218501_at	IAI	0.03
203138_at	IAI	0.03	219099_at	IAI	0.03
224412_s_at	IAI	0.03	212270_x_at	IAI	0.03
222842_at	IAI	0.03	213594_x_at	IAI	0.03
229082_at	IAI	0.03	212748_at	IAI	0.03
202865_at	IAI	0.03	214241_at	IAI	0.03
205219_s_at	IAI	0.03	212817_at	IAI	0.03
210377_at	IAI	0.03	213881_x_at	IAI	0.03
219065_s_at	IAI	0.03	212792_at	IAI	0.03
206052_s_at	IAI	0.03	214196_s_at	IAI	0.03
223010_s_at	IAI	0.03	214177_s_at	IAI	0.03
219239_s_at	IAI	0.03	214109_at	IAI	0.03
238346_s_at	IAI	0.03	212513_s_at	IAI	0.03
202058_s_at	IAI	0.03	213969_x_at	IAI	0.03
216032_s_at	IAI	0.03	213080_x_at	IAI	0.03
227000_at	IAI	0.03	213396_s_at	IAI	0.03
212404_s_at	IAI	0.03	213671_s_at	IAI	0.03
211940_x_at	IAI	0.03	21842 6_s_at	IAI	0.03
201441_at	IAI	0.03	2180 97_s_at	IAI	0.03
219732_at	IAI	0.03	2174 99_x_at	IAI	0.03
226872_at	IAI	0.03	218323_at	IAI	0.03
229886_at	IAI	0.03	218470_at	IAI	0.03
211548_s_at	IAI	0.03	218024_at	IAI	0.03
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225869_s_at	IAI	0.03	222390_at	IAI	0.03
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231922 _at	IAI	0.04
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217414 _x_at	IS	9.8e-07
212643 _at	IS	1.86e-06
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217910 _x_at	IS	2.45e-06
202596 _at	IS	2.59e-06
205202 _at	IS	2.66e-06
211696 _x_at	IS	3.11e-06
204417 _at	IS	3.19e-06
214135 _at	IS	4.14e-06
211745 _x_at	IS	4.38e-06
202381 _at	IS	4.4e-06
217949 _s_at	IS	4.42e-06
218586 _at	IS	4.45e-06
219444 _at	IS	4.65e-06
204665 _at	IS	5.39e-06
201128 _s_at	IS	5.4e-06
209409 _at	IS	5.78e-06
201002 _s_at	IS	6.06e-06
203430 _at	IS	6.37e-06
209806 _at	IS	6.4e-06
201119 _s_at	IS	6.54e-06
204351 _at	IS	6.61e-06
200925 _at	IS	6.9e-06
208909 _at	IS	6.99e-06
209142 _s_at	IS	6.99e-06
214414 _x_at	IS	7.25e-06
201631 _s_at	IS	7.41e-06
204342 _at	IS	7.9e-06
209841 _s_at	IS	8.02e-06
200882 _s_at	IS	8.18e-06
222721 _at	IS	8.38e-06
209140 _x_at	IS	8.66e-06
1558747 _at	IS	8.72e-06
212408 _at	IS	8.89e-06
216231 _s_at	IS	9.54e-06
219035 _s_at	IS	1.04e-05
201891 _s_at	IS	1.08e-05
201968 _s_at	IS	1.08e-05
201422 _at	IS	1.09e-05
211755 _s_at	IS	1.11e-05
217917 _s_at	IS	1.12e-05
204604 _at	IS	1.13e-05
200709 _at	IS	1.13e-05
209458 _x_at	IS	1.16e-05
203721 _s_at	IS	1.21e-05
217232 _x_at	IS	1.26e-05
200677 _at	IS	1.27e-05
200072 _s_at	IS	1.27e-05
221952 _x_at	IS	1.31e-05
209116 _x_at	IS	1.32e-05
208689 _s_at	IS	1.34e-05
202951 _at	IS	1.38e-05
225693 _s_at	IS	1.43e-05
201894 _s_at	IS	1.46e-05
212251 _at	IS	1.47e-05
204018 _x_at	IS	1.53e-05
221419 _s_at	IS	1.58e-05
208643 _s_at	IS	1.58e-05
200999 _s_at	IS	1.59e-05
201426 _s_at	IS	1.61e-05
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211609 _x_at	IS	1.67e-05

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211699_x_at	IS	1.74e-05
208674_x_at	IS	1.84e-05
209369_at	IS	1.84e-05
208642_s_at	IS	1.9e-05
212543_at	IS	1.92e-05
219860_at	IS	1.96e-05
209771_x_at	IS	2.07e-05
201463_s_at	IS	2.11e-05
211571_s_at	IS	2.23e-05
217499_x_at	IS	2.34e-05
213160_at	IS	2.36e-05
217762_s_at	IS	2.37e-05
201202_at	IS	2.37e-05
203855_at	IS	2.45e-05
203729_at	IS	2.45e-05
226956_at	IS	2.55e-05
210314_x_at	IS	2.55e-05
201375_s_at	IS	2.55e-05
210969_at	IS	2.58e-05
219594_at	IS	2.64e-05
210149_s_at	IS	2.64e-05
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213932_x_at	IS	2.81e-05
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205690_s_at	IS	2.87e-05
212220_at	IS	2.91e-05
217918_at	IS	3.11e-05
200000_s_at	IS	3.16e-05
208855_s_at	IS	3.18e-05
200886_s_at	IS	3.24e-05
217736_s_at	IS	3.27e-05
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216379_x_at	IS	3.38e-05
206656_s_at	IS	3.41e-05
211404_s_at	IS	3.53e-05
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201583_s_at	IS	3.68e-05
212227_x_at	IS	3.69e-05
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217852_s_at	IS	4.04e-05
215646_s_at	IS	4.11e-05
206208_at	IS	4.16e-05
202125_s_at	IS	4.26e-05
200652_at	IS	4.41e-05
200918_s_at	IS	4.47e-05
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208921_s_at	IS	4.54e-05
202447_at	IS	4.56e-05
202917_s_at	IS	4.6e-05
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217764_s_at	IS	4.71e-05
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221249_s_at	IS	4.84e-05
216041_x_at	IS	5.03e-05
209479_at	IS	5.07e-05
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209034_at	IS	5.09e-05
212250_at	IS	5.12e-05
202891_at	IS	5.15e-05
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238356_at	IS	5.76e-05
218514_at	IS	5.78e-05
205669_at	IS	5.81e-05
218108_at	IS	5.87e-05
201061_s_at	IS	5.87e-05
217927_at	IS	6.05e-05
200864_s_at	IS	6.1e-05
208702_x_at	IS	6.18e-05
203725_at	IS	6.24e-05
217747_s_at	IS	6.32e-05
208039_at	IS	6.38e-05
241620_at	IS	6.39e-05
206177_s_at	IS	6.47e-05
212377_s_at	IS	6.62e-05
203075_at	IS	6.66e-05
217931_at	IS	6.84e-05
210594_x_at	IS	6.91e-05
200682_s_at	IS	7.02e-05
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205627_at	IS	7.06e-05
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202560_s_at	IS	7.3e-05
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200804_at	IS	7.4e-05
208120_x_at	IS	7.47e-05
200801_x_at	IS	7.59e-05
206090_s_at	IS	7.65e-05
200048_s_at	IS	7.68e-05
200735_x_at	IS	7.74e-05
217978_s_at	IS	7.77e-05
200693_at	IS	7.8e-05
201136_at	IS	7.87e-05
213453_x_at	IS	7.92e-05
218213_s_at	IS	7.94e-05
212242_at	IS	8.07e-05
201174_s_at	IS	8.07e-05
218773_s_at	IS	8.18e-05
203529_at	IS	8.21e-05
203885_at	IS	8.25e-05
200640_at	IS	8.27e-05
218419_s_at	IS	8.3e-05
201090_x_at	IS	8.33e-05
212184_s_at	IS	8.41e-05
200743_s_at	IS	8.42e-05
211070_x_at	IS	8.47e-05
202854_at	IS	8.52e-05
202696_at	IS	8.56e-05
201060_x_at	IS	8.57e-05
218273_s_at	IS	8.59e-05
202121_s_at	IS	8.61e-05
200006_at	IS	8.64e-05
209539_at	IS	8.69e-05
212716_s_at	IS	8.78e-05
200075_s_at	IS	8.81e-05
216306_x_at	IS	8.91e-05
212359_s_at	IS	9.0e-05
200030_s_at	IS	9.18e-05
201794_s_at	IS	9.18e-05
200611_s_at	IS	9.2e-05

Probe		Value	Probe		Value
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206559 _x_at	IS	9.34e-05	219283 _at	IS	1.25621e-04
212168 _at	IS	9.36e-05	219281 _at	IS	1.25621e-04
208728 _s_at	IS	9.37e-05	220330 _s_at	IS	1.25621e-04
200639 _s_at	IS	9.38e-05	219014 _at	IS	1.25621e-04
215220 _s_at	IS	9.41e-05	219859 _at	IS	1.25621e-04
208647 _at	IS	9.55e-05	218998 _at	IS	1.25621e-04
201047 _x_at	IS	9.64e-05	218941 _at	IS	1.25621e-04
201193 _at	IS	9.64e-05	218829 _s_at	IS	1.25621e-04
221269 _s_at	IS	9.72e-05	218627 _at	IS	1.25621e-04
208730 _x_at	IS	9.77e-05	218556 _at	IS	1.25621e-04
209224 _s_at	IS	9.81e-05	220235 _s_at	IS	1.25621e-04
218263 _s_at	IS	9.86e-05	219666 _at	IS	1.25621e-04
203320 _at	IS	9.9e-05	219253 _at	IS	1.25621e-04
213535 _s_at	IS	1.01e-04	219806 _s_at	IS	1.25621e-04
217144 _at	IS	1.01e-04	219156 _at	IS	1.25621e-04
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219191 _s_at	IS	1.04e-04	214665 _s_at	IS	1.25621e-04
218506 _x_at	IS	1.04e-04	212856 _at	IS	1.25621e-04
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201098 _at	IS	1.06e-04	212271 _at	IS	1.25621e-04
206111 _at	IS	1.08e-04	214112 _s_at	IS	1.25621e-04
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212320 _at	IS	1.13e-04	212597 _s_at	IS	1.25621e-04
216988 _s_at	IS	1.13e-04	212335 _at	IS	1.25621e-04
205786 _s_at	IS	1.13e-04	213225 _at	IS	1.25621e-04
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202530	at	IS	1.25621e-04	205798	jat	IS	1.25621e-04
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202346	at	IS	1.25621e-04	205639	at	IS	1.25621e-04
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202503	s_at	IS	1.25621e-04	205726	at	IS	1.25621e-04
202131	s_at	IS	1.25621e-04	206542	s_at	IS	1.25621e-04
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202059	s_at	IS	1.25621e-04	209308	s_at	IS	1.25621e-04
203076	s_at	IS	1.25621e-04	209188	x_at	IS	1.25621e-04
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201576_s_at	IS	1.25621e-04	210004_at	IS	1.28328e-04
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201146_at	IS	1.25621e-04	210453_x_at	IS	1.4e-04
201345_s_at	IS	1.25621e-04	219403_s_at	IS	1.41397e-04
201546_at	IS	1.25621e-04	213515_x_at	IS	1.41397e-04
200927_s_at	IS	1.25621e-04	221490_at	IS	1.41397e-04
201898_s_at	IS	1.25621e-04	221504_s_at	IS	1.41397e-04

463

210254_at	IS	1.41397e-04	202946_s_at	IS	1.92183e-04
210244_at	IS	1.41397e-04	202252_at	IS	1.92183e-04
209273_s_at	IS	1.41397e-04	200876_s_at	IS	1.94e-04
201161_s_at	IS	1.41397e-04	201118_at	IS	1.95e-04
200857_s_at	IS	1.42e-04	203133_at	IS	1.96e-04
201441_at	IS	1.42e-04	203332_s_at	IS	1.97e-04
217865_at	IS	1.43e-04	203508_at	IS	2.0e-04
200660_at	IS	1.43e-04	209791_at	IS	2.01e-04
212519_at	IS	1.44e-04	234631_at	IS	2.04e-04
206464_at	IS	1.44e-04	219731_at	IS	2.04e-04
201652_at	IS	1.44e-04	36019_at	IS	2.05329e-04
200046_at	IS	1.46e-04	34408_at	IS	2.05329e-04
216274_s_at	IS	1.47e-04	266_s_at	IS	2.05329e-04
219445_at	IS	1.48601e-04	34210_at	IS	2.05329e-04
219129_s_at	IS	1.48601e-04	46270_at	IS	2.05329e-04
213173_at	IS	1.48601e-04	218482_at	IS	2.05329e-04
209211_at	IS	1.48601e-04	218662_s_at	IS	2.05329e-04
207988_s_at	IS	1.49e-04	218583_s_at	IS	2.05329e-04
200001_at	IS	1.49e-04	218487_at	IS	2.05329e-04
217768_at	IS	1.5e-04	218883_s_at	IS	2.05329e-04
200971_s_at	IS	1.53e-04	218582_at	IS	2.05329e-04
213151_s_at	IS	1.54e-04	219571_s_at	IS	2.05329e-04
215832_x_at	IS	1.55e-04	218616_at	IS	2.05329e-04
203538_at	IS	1.57e-04	220367_s_at	IS	2.05329e-04
200055_at	IS	1.57e-04	218739-at	IS	2.05329e-04
203254_s_at	IS	1.58e-04	218871_x_at	IS	2.05329e-04
202961_s_at	IS	1.58e-04	214953_s_at	IS	2.05329e-04
208948_s_at	IS	1.58e-04	213229_at	IS	2.05329e-04
215047_at	IS	1.5837e-04	212830_at	IS	2.05329e-04
213440_at	IS	1.5837e-04	214531_s_at	IS	2.05329e-04
204614_at	IS	1.5837e-04	212449_s_at	IS	2.05329e-04
209773_s_at	IS	1.5837e-04	213911_s_at	IS	2.05329e-04
200932_s_at	IS	1.5837e-04	212602-at	IS	2.05329e-04
218352_at	IS	1.62e-04	213154_s_at	IS	2.05329e-04
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210389_x_at	IS	1.63e-04	214938_x_at	IS	2.05329e-04
203011_at	IS	1.63e-04	214590_s_at	IS	2.05329e-04
214315_x_at	IS	1.64e-04	213011_s_at	IS	2.05329e-04
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204093_at	IS	1.66e-04	217898_at	IS	2.05329e-04
227467_at	IS	1.67e-04	218171_at	IS	2.05329e-04
220467_at	IS	1.71e-04	218310_at	IS	2.05329e-04
211270_x_at	IS	1.71e-04	217827_s_at	IS	2.05329e-04
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218992_at	IS	1.72083e-04	218348_s_at	IS	2.05329e-04
204218_at	IS	1.72083e-04	218107_at	IS	2.05329e-04
204419_x_at	IS	1.72083e-04	218313_s_at	IS	2.05329e-04
209892_at	IS	1.72083e-04	215127_s_at	IS	2.05329e-04
212267_at	IS	1.74e-04	218163_at	IS	2.05329e-04
202187_s_at	IS	1.74e-04	218357_s_at	IS	2.05329e-04
235683_at	IS	1.75e-04	216383_at	IS	2.05329e-04
214430_at	IS	1.75e-04	218251_at	IS	2.05329e-04
200019_s_at	IS	1.75e-04	218254_s_at	IS	2.05329e-04
227207_x_at	IS	1.76e-04	215498_s_at	IS	2.05329e-04
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53912_at	IS	1.77e-04	204362_at	IS	2.05329e-04
201954_at	IS	1.78e-04	203457_at	IS	2.05329e-04
208818_s_at	IS	1.79e-04	204026_s_at	IS	2.05329e-04
209499_x_at	IS	1.82e-04	203266_s_at	IS	2.05329e-04
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202801_at	IS	1.89e-04	203690_at	IS	2.05329e-04
218904_s_at	IS	1.92183e-04	203739_at	IS	2.05329e-04
212458_at	IS	1.92183e-04	221188_s_at	IS	2.05329e-04

221002 _s_at	IS	2.05329e-04	201275 _at	IS	2.05329e-04
222235 _s_at	IS	2.05329e-04	201303 _at	IS	2.05329e-04
220940 _at	IS	2.05329e-04	201811 _x_at	IS	2.05329e-04
220615 _s_at	IS	2.05329e-04	201470 _at	IS	2.05329e-04
220603 _s_at	IS	2.05329e-04	201336 _at	IS	2.05329e-04
221478 _at	IS	2.05329e-04	201238 _s_at	IS	2.05329e-04
221479 _s_at	IS	2.05329e-04	201096 _s_at	IS	2.05329e-04
209515 _s_at	IS	2.05329e-04	200861 _at	IS	2.05329e-04
211015 _s_at	IS	2.05329e-04	201298 _s_at	IS	2.05329e-04
211657 _at	IS	2.05329e-04	201328 _at	IS	2.05329e-04
211383 _s_at	IS	2.05329e-04	201312 _s_at	IS	2.05329e-04
210142 _x_at	IS	2.05329e-04	201695 _s_at	IS	2.05329e-04
210153 _s_at	IS	2.05329e-04	201256 _at	IS	2.05329e-04
212204 _at	IS	2.05329e-04	201192 _s_at	IS	2.05329e-04
209678 _s_at	IS	2.05329e-04	213646 _x_at	IS	2.06e-04
210639 _s_at	IS	2.05329e-04	207585 _s_at	IS	2.08e-04
209919 _x_at	IS	2.05329e-04	202189 _x_at	IS	2.14e-04
209734 _at	IS	2.05329e-04	200966 _x_at	IS	2.14e-04
212240 _s_at	IS	2.05329e-04	201400 _at	IS	2.14e-04
202243 _s_at	IS	2.05329e-04	220122 _at	IS	2.15e-04
202725 _at	IS	2.05329e-04	222625 _s_at	IS	2.15e-04
202499 _s_at	IS	2.05329e-04	202090 _s_at	IS	2.16e-04
202026 _at	IS	2.05329e-04	200008 _s_at	IS	2.16e-04
202788 _at	IS	2.05329e-04	224707 _at	IS	2.17e-04
203232 _s_at	IS	2.05329e-04	213571 _s_at	IS	2.17e-04
203042 _at	IS	2.05329e-04	51146 _at	IS	2.17434e-04
202313 _at	IS	2.05329e-04	213159 _at	IS	2.17434e-04
202206 _at	IS	2.05329e-04	212024 _x_at	IS	2.17434e-04
203127 _s_at	IS	2.05329e-04	210088 _x_at	IS	2.17434e-04
202872 _at	IS	2.05329e-04	203203 _s_at	IS	2.17434e-04
202535 _at	IS	2.05329e-04	207269 _[at	IS	2.17434e-04
203021 _at	IS	2.05329e-04	200678 _x_at	IS	2.19e-04
202511 _s_at	IS	2.05329e-04	200043 _[at	IS	2.19e-04
202878 _s_at	IS	2.05329e-04	224564 _s_at	IS	2.2e-04
202464 _s_at	IS	2.05329e-04	208319 _s_at	IS	2.2e-04
205550 _s_at	IS	2.05329e-04	200893 _at	IS	2.2e-04
205896 _at	IS	2.05329e-04	214882 _s_at	IS	2.21e-04
207266 _x_at	IS	2.05329e-04	201980 _s_at	IS	2.22e-04
207186 _s_at	IS	2.05329e-04	201338 _x_at	IS	2.22e-04
206158 _s_at	IS	2.05329e-04	204393 _s_at	IS	2.23311e-04
206522 _at	IS	2.05329e-04	211072 _x_at	IS	2.26e-04
207655 _s_at	IS	2.05329e-04	221741 _s_at	IS	2.29e-04
208770 _s_at	IS	2.05329e-04	218806 _s_at	IS	2.32466e-04
208749 _x_at	IS	2.05329e-04	204157 _s_at	IS	2.32466e-04
209216 _at	IS	2.05329e-04	207335 _x_at	IS	2.33e-04
209141 _[at	IS	2.05329e-04	202096 _s_at	IS	2.34e-04
208949 _s_at	IS	2.05329e-04	203667 _at	IS	2.38e-04
208864 _s_at	IS	2.05329e-04	206834 _at	IS	2.4e-04
208785 _s_at	IS	2.05329e-04	200037 _s_at	IS	2.4e-04
207980 _s_at	IS	2.05329e-04	218387 _s_at	IS	2.41e-04
209249 _s_at	IS	2.05329e-04	208248 _x_at	IS	2.41e-04
207805 _s_at	IS	2.05329e-04	200772 _x_at	IS	2.41e-04
209206 _at	IS	2.05329e-04	208308 _s_at	IS	2.42e-04
208579 _x_at	IS	2.05329e-04	202591 _s_at	IS	2.45e-04
208704 _x_at	IS	2.05329e-04	201724 _s_at	IS	2.45e-04
208898 _at	IS	2.05329e-04	203922 _s_at	IS	2.49e-04
209311 _at	IS	2.05329e-04	217720 _at	IS	2.5e-04
200734 _s_at	IS	2.05329e-04	207508 _at	IS	2.5e-04
200853 _at	IS	2.05329e-04	208634 _s_at	IS	2.51e-04
200800 _s_at	IS	2.05329e-04	203943 _[at	IS	2.54e-04
200746 _s_at	IS	2.05329e-04	206245 _s_at	IS	2.55e-04
200063 _s_at	IS	2.05329e-04	201588 _at	IS	2.57e-04
200863 _s_at	IS	2.05329e-04	155277 :i_at	IS	2.59e-04
201352 _at	IS	2.05329e-04	201105 _at	IS	2.59e-04

Probe		Value
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217801_at	1S	2.63e-04
216993_s_at	1S	2.64e-04
214501_s_at	1S	2.69e-04
203137_at	1S	2.69e-04
208517_x_at	1S	2.7e-04
217547_x_at	1S	2.71e-04
205292_s_at	1S	2.71e-04
204789_at	1S	2.73e-04
218872_at	1S	2.75101e-04
202080_s_at	1S	2.75101e-04
206116_s_at	1S	2.75101e-04
221425_s_at	1S	2.76199e-04
202947_s_at	1S	2.76199e-04
201573_s_at	1S	2.76199e-04
218190_s_at	1S	2.86e-04
203370_s_at	1S	2.88e-04
220980_s_at	1S	2.89e-04
71933_at	1S	2.94e-04
203471_s_at	1S	2.94e-04
203583_at	1S	2.94e-04
200651_at	1S	2.95e-04
217958_at	1S	2.97e-04
200777_s_at	1S	2.99e-04
212130_x_at	1S	3.0e-04
209476_at	IS	3.02e-04
217724_at	IS	3.05e-04
205033_s_at	IS	3.06e-04
210371_s_at	IS	3.07e-04
64408_s_at	IS	3.0913e-04
218833_at	IS	3.0913e-04
220000_at	IS	3.0913e-04
205557_at	IS	3.0913e-04
206364_at	IS	3.0913e-04
201216_at	IS	3.17e-04
225210_s_at	IS	3.2e-04
200083_at	IS	3.21e-04
209685_s_at	IS	3.22e-04
201499_s_at	IS	3.23e-04
45526_g_at	IS	3.25715e-04
218668_s_at	IS	3.25715e-04
219492_at	IS	3.25715e-04
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218660_at	IS	3.25715e-04
218949_s_at	IS	3.25715e-04
212610_at	IS	3.25715e-04
212982_at	IS	3.25715e-04
212273_x_at	IS	3.25715e-04
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212973_at	IS	3.25715e-04
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214352_s_at	IS	3.25715e-04
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212572_at	IS	3.25715e-04
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213501_at	IS	3.25715e-04
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213988_s_at	IS	3.25715e-04
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212740_at	IS	3.28e-04
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214467_at	IS	3.45e-04
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208698_s_at	IS	3.68e-04
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207320_x_at	IS	3.81e-04
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218280_x_at	IS	3.85e-04
202546_at	IS	3.87e-04
218603_at	IS	3.9e-04
211749_s_at	IS	3.9e-04
200941_at	IS	3.9e-04
200990_at	IS	3.92e-04
219326_s_at	IS	3.93443e-04
214523_at	IS	3.93443e-04
208873_s_at	IS	3.96e-04
202315_s_at	IS	3.97e-04
213526_s_at	IS	3.98e-O4
212780_at	IS	3.99e-04
217773_s_at	IS	4.0e-04
202471_s_at	IS	4.0e-04
31826_at	IS	4.07e-04
200848_at	IS	4.08e-04
208669_s_at	IS	4.1e-O4
202469_s_at	IS	4.11e-04
203788_s_at	IS	4.13e-04
221816_s_at	IS	4.16e-04
202173_s_at	IS	4.17e-04
200097_s_at	IS	4.18e-04
221474_at	IS	4.25e-04
202581_at	IS	4.25e-04
209384_at	IS	4.25e-04
200073_s_at	IS	4.31e-04
210840_s_at	IS	4.36e-04
33323_r_at	IS	4.37e-04
214733_s_at	IS	4.42332e-04
217427_s_at	IS	4.42332e-04
211271_x_at	IS	4.46e-04
214435_x_at	IS	4.47e-04
212697_at	IS	4.5e-04
204605_at	IS	4.52e-04
212584_at	IS	4.57e-04
216221_s_at	IS	4.6e-04
200964_at	IS	4.61e-04
213318_s_at	IS	4.65e-04
AFFX-HUMGAPDH/ M33197	IS	4.67e-04
218364_at	IS	4.67e-04
201322_at	IS	4.69e-04

37232_at	1S	4.72e-04
202118_s_at	1S	4.78e-04
216210_x_at	1S	4.87e-04
217356_s_at	1S	4.88e-04
205882_x_at	1S	4.88e-04
203630_s_at	1S	4.9e-04
217794_at	1S	4.91e-04
209187_at	1S	4.91e-04
221222_s_at	1S	4.99e-04
224690_at	1S	5.0e-04
44696_at	1S	5.02887e-04
219620_x_at	1S	5.02887e-04
218854_at	1S	5.02887e-04
219104_at	1S	5.02887e-04
219132_at	1S	5.02887e-04
218738_s_at	1S	5.02887e-04
218764_at	1S	5.02887e-04
212265_at	1S	5.02887e-04
212916_at	1S	5.02887e-04
212717_at	1S	5.02887e-04
213095_x_at	1S	5.02887e-04
212674_s_at	1S	5.02887e-04
213923_at	1S	5.02887e-04
213918_s_at	1S	5.02887e-04
218113_at	1S	5.02887e-04
218472_s_at	1S	5.02887e-04
215424_s_at	1S	5.02887e-04
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203827_at	IS	5.02887e-04
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204689_at	IS	5.02887e-04
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221214_s_at	IS	5.02887e-04
220865_s_at	IS	5.02887e-04
221820_s_at	IS	5.02887e-04
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211703_s_at	IS	5.02887e-04
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209467_s_at	IS	5.02887e-04
210296_s_at	IS	5.02887e-04
211058_x_at	IS	5.02887e-04
210213_s_at	IS	5.02887e-04
211085_s_at	IS	5.02887e-04
212124_at	IS	5.02887e-04
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210793_s_at	IS	5.02887e-04
202529_at	IS	5.02887e-04
203138_at	IS	5.02887e-04
203206_at	IS	5.02887e-04
202128_at	IS	5.02887e-04
202636_at	IS	5.02887e-04
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205575_at	IS	5.02887e-04
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206618_at	IS	5.02887e-04
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205513_at	IS	5.02887e-04
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208540_x_at	IS	5.02887e-04
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209281_s_at	IS	5.02887e-04
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208919_s_at	IS	5.02887e-04
208615_s_at	IS	5.02887e-04
208310_s_at	IS	5.02887e-04
208091_s_at	IS	5.02887e-04
200621_at	IS	5.02887e-04
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200733_s_at	IS	5.02887e-04
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201425_at	IS	5.02887e-04
201453_x_at	IS	5.02887e-04
201500_s_at	IS	5.02887e-04
201223_s_at	IS	5.02887e-04
201941_at	IS	5.02887e-04
200975_at	IS	5.02887e-04
201589_at	IS	5.02887e-04
207072_at	IS	5.05e-04
212896_at	IS	5.07e-04
220138_at	IS	5.07186e-04
221449_s_at	IS	5.07186e-04
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207121_s_at	IS	5.07186e-04
238462_at	IS	5.08e-04
201068_s_at	IS	5.09e-04
219112_at	IS	5.15e-04
200629_at	IS	5.17e-04

200828 _s_at	IS	5.21e-04
211495 _x_at	IS	5.22e-04
202060 _at	IS	5.24e-04
200818 _at	IS	5.28e-04
203691 _at	IS	5.34e-04
201384 _s_at	IS	5.37e-04
221873 _at	IS	5.39e-04
202836 _s_at	IS	5.43e-04
212371 _at	IS	5.5e-04
200630 _x_at	IS	5.5e-04
209500 _x_at	IS	5.51e-04
217836 _s_at	IS	5.53e-04
201360 _at	IS	5.53e-04
200035 _at	IS	5.54e-04
213366 _x_at	IS	5.56e-04
209296 _at	IS	5.57e-04
201600 _at	IS	5.59e-04
218661 _at	IS	5.6356e-04
218508 _at	IS	5.6356e-04
214496 _x_at	IS	5.6356e-04
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210154 _at	IS	5.6356e-04
206937 _at	IS	5.6356e-04
207627 _s_at	IS	5.6356e-04
202286 _s_at	IS	5.66964e-04
206697 _s_at	IS	5.66964e-04
204038 _s_at	IS	5.71e-04
208791 _at	IS	5.76e-04
218249 _at	IS	5.83e-04
207821 _s_at	IS	5.86e-04
201358 _s_at	IS	5.89e-04
221804 _s_at	IS	5.92e-04
203888 _at	IS	5.95878e-04
203507 _at	IS	5.95878e-04
202484 _s_at	IS	5.96e-04
60471_at	1S	6.0e-04
214895 _s_at	1S	6.0e-04
201498_at	1S	6.02e-04
203323_at	1S	6.11e-04
222682_s_at	1S	6.11e-04
219732_at	1S	6.16e-04
213399_x_at	1S	6.16e-04
233559_s_at	1S	6.18e-04
201908_at	1S	6.21e-04
208263_at	1S	6.26e-04
200701 _at	IS	6.3e-04
222065 _s_at	IS	6.31e-04
217717 _s_at	IS	6.35e-04
201563 _at	IS	6.35e-04
206139 _at	IS	6.37e-04
203405 _at	IS	6.39e-04
217839 _at	IS	6.41619e-04
202995 _s_at	IS	6.41619e-04
201590 _x_at	IS	6.43e-04
220288 _at	IS	6.45e-04
203244 _at	IS	6.48e-04
207466 _at	IS	6.5e-04
202038 _at	IS	6.55e-04
212430 _at	IS	6.57e-04
202077 _at	IS	6.57e-04
213491 _x_at	IS	6.63e-04
219717 _at	IS	6.67609e-04
219158 _s_at	IS	6.67609e-04
219228 _at	IS	6.67609e-04
219812 _at	IS	6.67609e-04
213666 _at	IS	6.67609e-04
213956 _at	IS	6.67609e-04
212961 _x_at	IS	6.67609e-04
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214366 _s_at	IS	6.67609e-04
214055 _x_at	IS	6.67609e-04
217729 _s_at	IS	6.67609e-04
215739 _s_at	IS	6.67609e-04
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204771 _s_at	IS	6.67609e-04
203506 _s_at	IS	6.67609e-04
221507 _at	IS	6.67609e-04
212229 _s_at	IS	6.67609e-04
211948 _x_at	IS	6.67609e-04
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205297 _s_at	IS	6.67609e-04
206829 _x_at	IS	6.67609e-04
204890 _s_at	IS	6.67609e-04
206335 _at	IS	6.67609e-04
209333 _at	IS	6.67609e-04
209088 _s_at	IS	6.67609e-04
201234 _at	IS	6.67609e-04
201602 _s_at	IS	6.67609e-04
201369 _s_at	IS	6.67609e-04
213341 _at	IS	6.69e-04
221443 _x_at	IS	6.71e-04
212100 _s_at	IS	6.71e-04
218134 _s_at	IS	6.74e-04
206698 _at	IS	6.76645e-04
200998 _s_at	IS	6.77e-04
215038 _s_at	IS	6.78e-04
220731 _s_at	IS	6.79e-04
216100 _s_at	IS	6.79422e-04
210775 _x_at	IS	6.79422e-04
202480 _s_at	IS	6.79422e-04
202374 _s_at	IS	6.79422e-04
205996 _s_at	IS	6.79422e-04
201264 _at	IS	6.79422e-04
201703 _s_at	IS	6.79422e-04
217763 _s_at	IS	6.83e-04
210667 _s_at	IS	6.93442e-04
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57516 _at	IS	6.95e-04
209949 _at	IS	7.01e-04
201471 _s_at	IS	7.04e-04
202141 _s_at	IS	7.07e-04
208627 _s_at	IS	7.1e-04
206028 _s_at	IS	7.10327e-04
207117 _at	IS	7.10327e-04
235816 _s_at	IS	7.11e-04
208313 _s_at	IS	7.11e-04
201534 _s_at	IS	7.19e-04
217742 _s_at	IS	7.21e-04
212199 _at	IS	7.22e-04
221666 _s_at	IS	7.24e-04
203234 _at	IS	7.31013e-04
208490 _x_at	IS	7.31013e-04
200748 _s_at	IS	7.33e-04
201899 _s_at	IS	7.36e-04
212616 _at	IS	7.44e-04
217212 _s_at	IS	7.44434e-04
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40149_at	IS	7.57566e-04	210386_s_at	IS	7.57566e-04
35254_at	IS	7.57566e-04	202925_s_at	IS	7.57566e-04
46323_at	IS	7.57566e-04	202611_s_at	IS	7.57566e-04
32032_at	IS	7.57566e-04	202362_at	IS	7.57566e-04
64486_at	IS	7.57566e-04	203107_x_at	IS	7.57566e-04
59644_at	IS	7.57566e-04	202941_at	IS	7.57566e-04
219426_at	IS	7.57566e-04	202247_s_at	IS	7.57566e-04
218534_s_at	IS	7.57566e-04	202393_s_at	IS	7.57566e-04
219549_s_at	IS	7.57566e-04	202641_at	IS	7.57566e-04
218761_at	IS	7.57566e-04	202443_x_at	IS	7.57566e-04
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219797_at	IS	7.57566e-04	202457_s_at	IS	7.57566e-04
212590_at	IS	7.57566e-04	202446_s_at	IS	7.57566e-04
213741_s_at	IS	7.57566e-04	202160_at	IS	7.57566e-04
214919_s_at	IS	7.57566e-04	202215_s_at	IS	7.57566e-04
214440_at	IS	7.57566e-04	202543_s_at	IS	7.57566e-04
212752_at	IS	7.57566e-04	202654_x_at	IS	7.57566e-04
214511_x_at	IS	7.57566e-04	202767_at	IS	7.57566e-04
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212666_at	IS	7.57566e-04	202649_x_at	IS	7.57566e-04
212802_s_at	IS	7.57566e-04	205255_x_at	IS	7.57566e-04
212549_at	IS	7.57566e-04	206790_s_at	IS	7.57566e-04
212899_at	IS	7.57566e-04	206240_s_at	IS	7.57566e-04
213414_s_at	IS	7.57566e-04	205013_s_at	IS	7.57566e-04
218262_at	IS	7.57566e-04	205263_at	IS	7.57566e-04
218008_at	IS	7.57566e-04	205504_at	IS	7.57566e-04
217788_s_at	IS	7.57566e-04	205590_at	IS	7.57566e-04
217826_s_at	IS	7.57566e-04	207347_at	IS	7.57566e-04
217939_s_at	IS	7.57566e-04	208982_at	IS	7.57566e-04
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218291_at	IS	7.57566e-04	208438_s_at	IS	7.57566e-04
218093_s_at	IS	7.57566e-04	209185_s_at	IS	7.57566e-04
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218124_at	IS	7.57566e-04	208994_s_at	IS	7.57566e-04
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203897_at	IS	7.57566e-04	208660_at	IS	7.57566e-04
204308_s_at	IS	7.57566e-04	209018_s_at	IS	7.57566e-04
203887_s_at	IS	7.57566e-04	200838_at	IS	7.57566e-04
204314_s_at	IS	7.57566e-04	200696_s_at	IS	7.57566e-04
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204646_at	IS	7.57566e-04	200039_s_at	IS	7.57566e-04
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221749_at	IS	7.57566e-04	200070_at	IS	7.57566e-04
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221059_s_at	IS	7.57566e-04	201172_x_at	IS	7.57566e-04
221778_at	IS	7.57566e-04	200870_at	IS	7.57566e-04
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211936_at	IS	7.57566e-04	201412_at	IS	7.57566e-04
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210200_at	IS	7.57566e-04	201773_at	IS	7.57566e-04
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201772 at	IS	7.57566e-04
201651 s at	IS	7.57566e-04
201237 at	IS	7.57566e-04
201761 at	IS	7.57566e-04
200960 x at	IS	7.57566e-04
200059 s at	IS	7.71e-04
200976 s at	IS	7.79e-04
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205898 at	IS	7.93e-04
201201 at	IS	7.94e-04
200822 x at	IS	7.98e-04
201271 s at	IS	7.99e-04
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210616 s at	IS	8.22e-04
213475 s at	IS	8.25e-04
200053 at	IS	8.26e-04
219929 s at	IS	8.3371e-04
208926 at	IS	8.3371e-04
218716 x at	IS	8.38e-04
202413 s at	IS	8.42e-04
235568 at	IS	8.44e-04
221495 s at	IS	8.46e-04
202593 s at	IS	8.47e-04
204892 x at	IS	8.47e-04
201582 at	IS	8.48e-04
202272 s at	IS	8.5e-04
205644 s at	IS	8.59e-04
212452 x at	IS	8.68061e-04
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204366 s at	IS	8.68061e-04
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203403 s at	IS	8.87e-04
117 at	IS	8.87e-04
201973 s at	IS	8.93e-04
218332 at	IS	8.93505e-04
215603 x at	IS	8.93505e-04
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201140 s at	IS	8.94e-04
203185 at	IS	8.95e-04
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221619 s at	IS	9.01e-04
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226414 s at	IS	9.32e-04
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224791 at	IS	9.42e-04
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478

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221484_at	IS	7.388031e-03

201227_s_at	IS	7.428183e-03	205016_at	IS	7.779292e-03
209945_s_at	IS	7.428818e-03	205930_at	IS	7.779292e-03
212252_at	IS	7.496363e-03	207198_s_at	IS	7.779292e-03
203674_at	IS	7.505552e-03	205467_at	IS	7.779292e-03
218371_s_at	IS	7.534093e-03	206792_x_at	IS	7.779292e-03
203426_s_at	IS	7.536739e-03	207809_s_at	IS	7.779292e-03
219357_at	IS	7.557581e-03	208967_s_at	IS	7.779292e-03
212213_x_at	IS	7.577386e-03	207605_x_at	IS	7.779292e-03
201379_s_at	IS	7.579028e-03	209003_at	IS	7.779292e-03
219004_s_at	IS	7.581425e-03	200596_s_at	IS	7.779292e-03
203204_s_at	IS	7.581425e-03	200716_x_at	IS	7.779292e-03
203420_at	IS	7.61053e-03	200721_s_at	IS	7.779292e-03
203345_s_at	IS	7.619144e-03	202000_at	IS	7.779292e-03
204493_at	IS	7.634607e-03	201999_s_at	IS	7.779292e-03
36564_at	IS	7.65393e-03	201730_s_at	IS	7.779292e-03
201740_at	IS	7.679804e-03	201963_at	IS	7.779292e-03
200025_s_at	IS	7.685771e-03	201587_s_at	IS	7.779292e-03
205172_x_at	IS	7.750621e-03	201346_at	IS	7.779292e-03
200825_s_at	IS	7.77035e-03	201850_at	IS	7.779292e-03
225132_at	IS	7.778448e-03	201997_s_at	IS	7.779292e-03
40255_at	IS	7.779292e-03	201423_s_at	IS	7.779292e-03
38964_r_at	IS	7.779292e-03	226283_at	IS	7.79604e-03
219862_s_at	IS	7.779292e-03	207419_s_at	IS	7.808967e-03
220244_at	IS	7.779292e-03	202693_s_at	IS	7.819234e-03
218580_x_at	IS	7.779292e-03	221476_s_at	IS	7.849871e-03
218652_s_at	IS	7.779292e-03	218950_at	IS	7.869568e-03
213208_at	IS	7.779292e-03	203380_x_at	IS	7.870558e-03
212833_at	IS	7.779292e-03	217478_s_at	IS	7.886023e-03
212888_at	IS	7.779292e-03	206332_s_at	IS	7.913048e-03
213687_s_at	IS	7.779292e-03	48825_at	IS	7.933939e-03
213603_s_at	IS	7.779292e-03	219952_s_at	IS	7.933939e-03
212947_at	IS	7.779292e-03	208885_at	13	7.940401e-03
212971_at	IS	7.779292e-03	203304_at	IS	7.942203e-03
216308_x_at	IS	7.779292e-03	203340_s_at	IS	7.942853e-03
217983_s_at	IS	7.779292e-03	209605_at	IS	7.942853e-03
218168_s_at	IS	7.779292e-03	205072_s_at	IS	7.942853e-03
218379_at	IS	7.779292e-03	201506_at	IS	7.969985e-03
218333_at	IS	7.779292e-03	207791_s_at	IS	7.972715e-03
217797_at	IS	7.779292e-03	201198_s_at	IS	7.988775e-03
217286_s_at	IS	7.779292e-03	201171_at	IS	8.001309e-03
203974_at	IS	7.779292e-03	203614_at	IS	8.023414e-03
204690_at	IS	7.779292e-03	201155_s_at	IS	8.031444e-03
204313_s_at	IS	7.779292e-03	212926_at	IS	8.035721e-03
221819_at	IS	7.779292e-03	211822_s_at	IS	8.035721e-03
222244_s_at	IS	7.779292e-03	212249_at	IS	8.035721e-03
221581_s_at	IS	7.779292e-03	202968_s_at	IS	8.035721e-03
221430_s_at	IS	7.779292e-03	202124_s_at	IS	8.035721e-03
221875_x_at	IS	7.779292e-03	205760_s_at	IS	8.035721e-03
209964_s_at	IS	7.779292e-03	208325_s_at	IS	8.035721e-03
209628_at	IS	7.779292e-03	208195_at	IS	8.035721e-03
210646_x_at	IS	7.779292e-03	201867_s_at	IS	8.035721e-03
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212175_s_at	IS	7.779292e-03	237563_s_at	IS	8.053332e-03
209520_s_at	IS	7.779292e-03	207408_at	IS	8.079965e-03
203166_at	IS	7.779292e-03	AFFX-HUMGAPDH/		
202098_s_at	IS	7.779292e-03	M33197	IS	8.082535e-03
202605_at	IS	7.779292e-03	204872_at	IS	8.08449e-03
202193_at	IS	7.779292e-03	209484_s_at	IS	8.131991e-03
202882_x_at	IS	7.779292e-03	223044_at	IS	8.159907e-03
202960_s_at	IS	7.779292e-03	213351_s_at	IS	8.185061e-03
202135_s_at	IS	7.779292e-03	215236_s_at	IS	8.185061e-03
202474_s_at	IS	7.779292e-03	214709_s_at	IS	8.216441e-03
203077_s_at	IS	7.779292e-03	201531_at	IS	8.220872e-03
203082_at	IS	7.779292e-03	220009_at	IS	8.237354e-03

21584 24_J_s_at	IS	8.237354e-03	218084_x_at	IS	9.193871e-03
204125_at	IS	8.237354e-03	215749_s_at	IS	9.199232e-03
205832_at	IS	8.237354e-03	203025_at	IS	9.199232e-03
205950_s_at	IS	8.237354e-03	202640_s_at	IS	9.199232e-03
209392_at	IS	8.237354e-03	35150_at	IS	9.214658e-03
201890_at	IS	8.237354e-03	208894_at	IS	9.221007e-03
212862_at	IS	8.243436e-03	203611_at	IS	9.271398e-03
202230_s_at	IS	8.27011e-03	222021_x_at	IS	9.274144e-03
211716_x_at	IS	8.282824e-03	220500_s_at	IS	9.274825e-03
226696_at	IS	8.341704e-03	204674_at	IS	9.283273e-03
211913_s_at	IS	8.390929e-03	222127_s_at	IS	9.288683e-03
202492_at	IS	8.395197e-03	205312_at	IS	9.322185e-03
201350_at	IS	8.406462e-03	204472_at	IS	9.382258e-03
212263_at	IS	8.425641e-03	216252_x_at	IS	9.437652e-03
218306_s_at	IS	8.441424e-03	203741_s_at	IS	9.437751e-03
221891_x_at	IS	8.443094e-03	212356-at	IS	9.450352e-03
209835_x_at	IS	8.456636e-03	212658_at	IS	9.450352e-03
218870_at	IS	8.458772e-03	221196_x_at	IS	9.450352e-03
202113_s_at	IS	8.45912e-03	208578_at	IS	9.45783e-03
203003_at	IS	8.531004e-03	202957_at	IS	9.481811e-03
201018_at	IS	8.53316e-03	201157_s_at	IS	9.506616e-03
1552889_a_at	IS	8.548159e-03	226239_at	IS	9.539796e-03
202232_s_at	IS	8.588854e-03	227986_at	IS	9.555175e-03
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208692_at	IS	8.634299e-03	217398_x_at	IS	9.640495e-03
200714_x_at	IS	8.653621e-03	212570_at	IS	9.652107e-03
220957_at	IS	8.654135e-03	210285_x_at	IS	9.655536e-03
201676_x_at	IS	8.660696e-03	204774_at	IS	9.666692e-03
220755_s_at	IS	8.669976e-03	225980_at	IS	9.675351e-03
217028_at	IS	8.683536e-03	203283_s_at	IS	9.682221e-03
204360_s_at	IS	8.700226e-03	202027_at	IS	9.682221e-03
213214_x_at	IS	8.746493e-03	214773_x_at	IS	9.689362e-03
207957_s^_at	IS	8.788083e-03	217930_s_at	IS	9.689362e-03
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205269_at	IS	8.802666e-03	211097_s_at	IS	9.689362e-03
218532_s_at	IS	8.814531e-03	208880_s_at	IS	9.689362e-03
215952_s_at	IS	8.824936e-03	209258_s_at	IS	9.689362e-03
216388_s_at	IS	8.840424e-03	216902_s_at	IS	9.715506e-03
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203196_at	IS	8.840424e-03	220195_at	IS	9.761799e-03
202330_s_at	IS	8.840424e-03	209928_s_at	IS	9.843808e-03
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210014_x_at	IS	8.845297e-03	212953_x_at	IS	9.907088e-03
203537_at	IS	8.850205e-03	200615_s_at	IS	9.907088e-03
211714_x_at	IS	8.865828e-03	222024_s_at	IS	9.959649e-03
202682_s_at	IS	8.896219e-03	202425_x_at	IS	9.96962e-03
205849_s'at	IS	8.900462e-03	218301_at	IS	9.972049e-03
211503_s_at	IS	8.996123e-03	203312_x_at	IS	9.972597e-03
209112_at	IS	8.996988e-03	211069_s_at	IS	9.981279e-03
218153_at	IS	8-.998011e-03	202604_x_at	IS	0.01
221494_x_at	IS	9.056083e-03	210574_s_at	IS	0.01
50965_at	IS	9.067903e-03	218118_s_at	IS	0.01
215157_x_at	IS	9.074919e-03	202860_at	IS	0.01
35974_at	IS	9.132765e-03	212804_s_at	IS	0.01
63009_at	IS	9.141337e-03	218700_s_at	IS	0.01
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205645_at	IS	9.167529e-03	206257_at	IS	0.01
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225787_at	IS	9.187707e-03	218880_at	IS	0.01
204906_at	IS	9.191709e-03	219960_s_at	IS	0.01

219575_s_at	IS	0.01	201074_at	IS	0.01
219099_at	IS	0.01	208617_s_at	IS	0.01
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219065_s_at	IS	0.01	201476_s_at	IS	0.01
212465_at	IS	0.01	211940_x_at	IS	0.01
212293_at	IS	0.01	217371_s_at	IS	0.01
214177_s_at	IS	0.01	218007_s_at	IS	0.01
212790_x_at	IS	0.01	209494_s_at	IS	0.01
217989_at	IS	0.01	209934_s_at	IS	0.01
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221588_x_at	IS	0.01	212796_s_at	IS	0.01
211710_x_at	IS	0.01	217984_at	IS	0.01
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202944_at	IS	0.01	214132_at	IS	0.01
202120_x_at	IS	0.01	201671_x_at	IS	0.01
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205596_s_at	IS	0.01	203064_s_at	IS	0.01
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209115_at	IS	0.01	202195_s_at	IS	0.01
208913_at	IS	0.01	208819_at	IS	0.01
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208030_s_at	IS	0.01	213065_at	IS	0.01
208815_x_at	IS	0.01	205147_x_at	IS	0.01
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209232_s_at	IS	0.01	201924_at	IS	0.01
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32811_at	IS	0.01	210186_s_at	IS	0.01
200819_s_at	IS	0.01	213620_s_at	IS	0.01
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201993_x_at	IS	0.01	206652_at	IS	0.01
202391_at	IS	0.01	205323_s_at	IS	0.01
236283_x_at	IS	0.01	201742_x_at	IS	0.01
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35626_at	1S	0.01	214800_x_at	1S	0.01
396_f_at	1S	0.01	213307_at	1S	0.01
36711_at	1S	0.01	213261_at	1S	0.01
40420_at	1S	0.01	212919_at	1S	0.01
48117_at	1S	0.01	213773_x_at	1S	0.01
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			204588_s_at	1S	0.01

Probe	Suffix			Probe	Suffix		
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203338	_at	IS	0.01	203147	s_at	IS	0.01
204567	[s_at	IS	0.01	202266	_at	IS	0.01
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203303	_at	IS	0.01	202268	s_at	IS	0.01
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2B69...s_at 1 ∑~ trvbl

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212268_at	IT	7.63015e-04	210231_x_at	IT	7.63015e-04
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212856_at	IT	7.63015e-04	210293_s_at	IT	7.63015e-04
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213246_at	IT	7.63015e-04	210943_s_at	IT	7.63015e-04
213572_s_at	IT	7.63015e-04	212250_at	IT	7.63015e-04
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218195_at	IT	7.63015e-04	202387_at	IT	7.63015e-04
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219607 's_at	IT	1.488805e-03
217414 "x_at	IT	1.488805e-03
209116 'x_at	IT	1.488805e-03
218833 _at	IT	1.52741e-03
209882 "at	IT	1.580104e-03
210119 "at	IT	1.580104e-03
209512 _at	IT	1.580104e-03
203090 "at	IT	1.580104e-03
203044 '_at	IT	1.580104e-03
208728 _s_at	IT	1.580104e-03
201724 "s_at	IT	1.580104e-03
201725 "at	IT	1.580104e-03
219649 "at	IT	1.640644e-03
218252 "at	IT	1.640644e-03
202105 "at	IT	1.640644e-03
206245 "s_at	IT	1.640644e-03
208739 _x_at	IT	1.640644e-03
201493 "s_at	IT	1.640644e-03
201807 "at	IT	1.640644e-03
221425 "s_at	IT	1.660402e-03
212683 "at	IT	1.696131e-03
209339 "at	IT	1.696131e-03
218514 "at	IT	1.71925e-03
218949 "s_at	IT	1.71925e-03
213624~at	IT	1.71925e-03
213988 _s_at	IT	1.71925e-03
213501 "at	IT	1.71925e-03
212527 "at	IT	1.71925e-03
218352 "at	IT	1.71925e-03
218271 "s_at	IT	1.71925e-03
203321 "s_at	IT	1.71925e-03
204297 "at	IT	1.71925e-03
203501 "at	IT	1.71925e-03
203655 "at	IT	1.71925e-03
202845 _s_at	IT	1.71925e-03
202727 _s_at	IT	1.71925e-03
203184 _at	IT	1.71925e-03
207387 _s_at	IT	1.71925e-03
206200 _s_at	IT	1.71925e-03
208248 "x_at	IT	1.71925e-03
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200640 "at	IT	1.71925e-03
200829 _x_at	IT	1.71925e-03
201400 "at	IT	1.71925e-03
201186 _at	IT	1.71925e-03
201670 "s_at	IT	1.71925e-03
201277 _s_at	IT	1.71925e-03
220000 "at	IT	1.735165e-03
219938 _s_at	IT	1.762545e-03
214352 _s_at	IT	1.762545e-03
212273 _x_at	IT	1.762545e-03
212610 "at	IT	1.762545e-03
212982 _at	IT	1.762545e-03
212973 "at	IT	1.762545e-03
216274 "s_at	IT	1.762545e-03
217927 "at	IT	1.762545e-03
203487 _s_at	IT	1.762545e-03
204219 "s_at	IT	1.762545e-03
203320 "at	IT	1.762545e-03
203775 "at	IT	1.762545e-03
203544 "s_at	IT	1.762545e-03
203279 "at	IT	1.762545e-03
211684 "s_at	IT	1.762545e-03
209517 _s_at	IT	1.762545e-03
203243 "s_at	IT	1.762545e-03
208924 "at	IT	1.762545e-03
209194 "at	IT	1.762545e-03
201903 "at	IT	1.762545e-03
201060 "x_at	IT	1.762545e-03
201200 "at	IT	1.762545e-03
201817 "at	IT	1.762545e-03
201091 "s_at	IT	1.762545e-03
212531 _at	IT	1.762912e-03
64408 _s_at	IT	1.766757e-03
45526 _g_at	IT	1.812422e-03
212807 _s_at	IT	1.812422e-03
217862 "at	IT	1.812422e-03
216457 "s_at	IT	1.812422e-03
217707 "x_at	IT	1.812422e-03
221620 "s_at	IT	1.812422e-03
220926 "s_at	IT	1.812422e-03
221613 "s_at	IT	1.812422e-03
220980 "s_at	IT	1.812422e-03
221724 "s_at	IT	1.812422e-03
221011 "s_at	IT	1.812422e-03
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202364 "at	IT	1.812422e-03
205740 _s_at	IT	1.812422e-03
207616 "s_at	IT	1.812422e-03
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201097 "s_at	IT	1.812422e-03
201007 "at	IT	1.812422e-03
201163 "s_at	IT	1.812422e-03
201483 "s_at	IT	1.812422e-03
219359 "at	IT	1.834995e-03
212572 "at	IT	1.834995e-03
218196 "at	IT	1.834995e-03
203583 "at	IT	1.834995e-03
221485 _at	IT	1.834995e-03
210951 _x_at	IT	1.834995e-03
212242 "at	IT	1.834995e-03
202269 _x_at	IT	1.834995e-03
202534 _x_at	IT	1.834995e-03
203075 "at	IT	1.834995e-03
209027 "s_at	IT	1.834995e-03
209276 "s_at	IT	1.834995e-03
208882 "s_at	IT	1.834995e-03
201593 "s_at	IT	1.834995e-03
218668 "s_at	IT	1.85209e-03
219816 "s_at	IT	1.85209e-03
218660 "at	IT	1.85209e-03
212369 "at	IT	1.85209e-03
212264 "s_at	IT	1.85209e-03
217843 "s_at	IT	1.85209e-03
215832 "x_at	IT	1.85209e-03
215646 _s_at	IT	1.85209e-03
217552 "x_at	IT	1.85209e-03
203408 "s_at	IT	1.85209e-03
204342 "at	IT	1.85209e-03
203284 "s_at	IT	1.85209e-03
203605 _at	IT	1.85209e-03
221257 _x_at	IT	1.85209e-03
210996 _s_at	IT	1.85209e-03
210395 _x_at	IT	1.85209e-03

209551 _at	-YT	I.s520ge-os	220138 _at	IT	2.241295e-03
202824 _s_at	IT	1.85209e-03	218661 _at	IT	2.290652e-03
202162 _s_at	IT	1.85209e-03	214496 _x_at	IT	2.290652e-03
203133 _at	IT	1.85209e-03	217427 _s_at	IT	2.34967e-03
202010 _s_at	IT	1.85209e-03	219132 _at	IT	2.359541e-03
202343 _x_at	IT	1.85209e-03	214501 _s_at	IT	2.359541e-03
209452 _s_at	IT	1.85209e-03	203827 _at	IT	2.359541e-03
208641 _s_at	IT	1.85209e-03	212265 _at	IT	2.446333e-03
201642 _at	IT	1.85209e-03	203291 _at	IT	2.446333e-03
201359 _at	IT	1.85209e-03	204849 _at	IT	2.446333e-03
221449 _s_at	IT	1.857667e-03	203497 _at	IT	2.446333e-03
203744 _at	IT	1.915643e-03	203574 _at	IT	2.446333e-03
209916 _at	IT	1.915643e-03	209476 _at	IT	2.446333e-03
201930 _at	IT	1.915643e-03	202430 _s_at	IT	2.446333e-03
214523 _at	IT	1.926652e-03	209384 _at	IT	2.446333e-03
218854 _at	IT	1.941725e-03	201174 _s_at	IT	2.446333e-03
219104 _at	IT	1.941725e-03	201975 _at	IT	2.446333e-03
213095 _x_at	IT	1.941725e-03	217212 _s_at	IT	2.485666e-03
215051 _x_at	IT	1.941725e-03	214733 _s_at	IT	2.518019e-03
218113 _at	IT	1.941725e-03	203507 _at	IT	2.535593e-03
204613 _at	IT	1.941725e-03	218472 _s_at	IT	2.558858e-03
204689 _at	IT	1.941725e-03	218047 _at	IT	2.558858e-03
204018 _x_at	IT	1.941725e-03	203778 _at	IT	2.558858e-03
221214 _s_at	IT	1.941725e-03	210453 _x_at	IT	2.558858e-03
220865 _s_at	IT	1.941725e-03	208746 _x_at	IT	2.558858e-03
210793 _s_at	IT	1.941725e-03	208310 _s_at	IT	2.558858e-03
212063 _at	IT	1.941725e-03	201273 _s_at	IT	2.558858e-03
211058 _x_at	IT	1.941725e-03	200999 _s_at	IT	2.558858e-03
211072 _x_at	IT	1.941725e-03	201472 _at	IT	2.558858e-03
205842 _s_at	IT	1.941725e-03	201317 _s_at	IT	2.558858e-03
205575 _at	IT	1.941725e-03	200975 _at	IT	2.558858e-03
206618 _at	IT	1.941725e-03	210154 _at	IT	2.594696e-03
206150 _at	IT	1.941725e-03	64486 _at	IT	2.602565e-03
208091 _s_at	IT	1.941725e-03	59644 _at	IT	2.602565e-03
200791 _s_at	IT	1.941725e-03	213646 _x_at	IT	2.602565e-03
200619 _at	IT	1.941725e-03	217905 _at	IT	2.602565e-03
201500 _s_at	IT	1.941725e-03	217990 _at	IT	2.602565e-03
200996 _at	IT	1.941725e-03	203512 _at	IT	2.602565e-03
201684 _s_at	IT	1.941725e-03	203471 _s_at	IT	2.602565e-03
214620 _x_at	IT	2.003435e-03	203529 _at	IT	2.602565e-03
209498 _at	IT	2.003435e-03	203371 _s_at	IT	2.602565e-03
219292 _at	IT	2.024199e-03	204308 _s_at	IT	2.602565e-03
44696 _at	IT	2.109097e-03	209901 _x_at	IT	2.602565e-03
204160 _s_at	IT	2.109097e-03	211745 _x_at	IT	2.602565e-03
221952 _x_at	IT	2.109097e-03	202443 _x_at	IT	2.602565e-03
202529 _at	IT	2.109097e-03	202393 _s_at	IT	2.602565e-03
202956 _at	IT	2.109097e-03	202649 _x_at	IT	2.602565e-03
202636 _at	IT	2.109097e-03	202641 _at	IT	2.602565e-03
205513 _at	IT	2.109097e-03	206687 _s_at	IT	2.602565e-03
207168 _s_at	IT	2.109097e-03	207545 _s_at	IT	2.602565e-03
200723 _s_at	IT	2.109097e-03	209089 _at	IT	2.602565e-03
201916 _s_at	IT	2.109097e-03	209034 _at	IT	2.602565e-03
201425 _at	IT	2.109097e-03	200668 _s_at	IT	2.602565e-03
201196 _s_at	IT	2.109097e-03	200732 _s_at	IT	2.602565e-03
212717 _at	IT	2.214301e-03	200799 _at	IT	2.602565e-03
212377 _s_at	IT	2.214301e-03	201651 _s_at	IT	2.602565e-03
213918 _s_at	IT	2.214301e-03	212674 _s_at	IT	2.620756e-03
212124 _at	IT	2.214301e-03	217917 _s_at	IT	2.620756e-03
210878 _s_at	IT	2.214301e-03	216054 _x_at	IT	2.620756e-03
208540 _x_at	IT	2.214301e-03	218414 _s_at	IT	2.620756e-03
208919 _s_at	IT	2.214301e-03	209281 _s_at	IT	2.620756e-03
201100 _s_at	IT	2.214301e-03	200821 _at	IT	2.620756e-03
201202 _at	IT	2.214301e-03	201223 _s_at	IT	2.620756e-03
219326 _s_at	IT	2.214821e-03	201941 _at	IT	2.620756e-03

201941_at	IT	2.620756e-03	212549_at	IT	3.00947e-03
219620_x_at	IT	2.692001e-03	213414_s_at	IT	3.00947e-03
217949_s_at	IT	2.692001e-03	217939_s_at	IT	3.00947e-03
215424_s_at	IT	2.692001e-03	216841_s_at	IT	3.00947e-03
210296_s_at	IT	2.692001e-03	203897_at	IT	3.00947e-03
202568_s_at	IT	2.692001e-03	211763_s_at	IT	3.00947e-03
202770_s_at	IT	2.692001e-03	202767_at	IT	3.00947e-03
200096_s_at	IT	2.692001e-03	208982_at	IT	3.00947e-03
200733_s_at	IT	2.692001e-03	200765_x_at	IT	3.00947e-03
201453_x_at	IT	2.692001e-03	201412_at	IT	3.00947e-03
201652_at	IT	2.692001e-03	218508_at	IT	3.072906e-03
218764_at	IT	2.72422e-03	206937_at	IT	3.072906e-03
212916_at	IT	2.72422e-03	207627_s_at	IT	3.072906e-03
213923_at	IT	2.72422e-03	205011_at	IT	3.101901e-03
218023_s_at	IT	2.72422e-03	205856_at	IT	3.101901e-03
218280_x_at	IT	2.72422e-03	213851_at	IT	3.11531e-03
203379_at	IT	2.72422e-03	203888_at	IT	3.248421e-03
203620_s_at	IT	2.72422e-03	202995_s_at	IT	3.287957e-03
221820_s_at	IT	2.72422e-03	212590_at	IT	3.305229e-03
211085_s_at	IT	2.72422e-03	215038_s_at	IT	3.305229e-03
209467_s_at	IT	2.72422e-03	201773_at	IT	3.305229e-03
211703_s_at	IT	2.72422e-03	219228_at	IT	3.315174e-03
202304_at	IT	2.72422e-03	219812_at	IT	3.315174e-03
202506_at	IT	2.72422e-03	213666_at	IT	3.315174e-03
207320_x_at	IT	2.72422e-03	212961_x_at	IT	3.315174e-03
205607_s_at	IT	2.72422e-03	214055_x_at	IT	3.315174e-03
208120_x_at	IT	2.72422e-03	214305_s_at	IT	3.315174e-03
209020_at	IT	2.72422e-03	214366_s_at	IT	3.315174e-03
209295_at	IT	2.72422e-03	215739_s_at	IT	3.315174e-03
200740_s_at	IT	2.72422e-03	204771_s_at	IT	3.315174e-03
1729_at	IT	2.72422e-03	203506_s_at	IT	3.315174e-03
200971_s_at	IT	2.72422e-03	212229_s_at	IT	3.315174e-03
200929_at	IT	2.72422e-03	211948_x_at	IT	3.315174e-03
218738_s_at	IT	2.748613e-03	205936_s_at	IT	3.315174e-03
217736_s_at	IT	2.748613e-03	204890_s_at	IT	3.315174e-03
218137_s_at	IT	2.748613e-03	206335_at	IT	3.315174e-03
218243_at	IT	2.748613e-03	209088_s_at	IT	3.315174e-03
203800_s_at	IT	2.748613e-03	201602_s_at	IT	3.315174e-03
209682_at	IT	2.748613e-03	201234_at	IT	3.315174e-03
210213_s_at	IT	2.748613e-03	202367_at	IT	3.329831e-03
202128_at	IT	2.748613e-03	216100_s_at	IT	3.365838e-03
202811_at	IT	2.748613e-03	202480_s_at	IT	3.365838e-03
203206_at	IT	2.748613e-03	201703_s_at	IT	3.365838e-03
203138_at	IT	2.748613e-03	46323_at	IT	3.373312e-03
202090_s_at	IT	2.748613e-03	35254_at	IT	3.373312e-03
205027_s_at	IT	2.748613e-03	213708_s_at	IT	3.373312e-03
208709_s_at	IT	2.748613e-03	204314_s_at	IT	3.373312e-03
208284_x_at	IT	2.748613e-03	203887_s_at	IT	3.373312e-03
208615_s_at	IT	2.748613e-03	221059_s_at	IT	3.373312e-03
200669_s_at	IT	2.748613e-03	211936_at	IT	3.373312e-03
200621_at	IT	2.748613e-03	210386_s_at	IT	3.373312e-03
201136_at	IT	2.748613e-03	202925_s_at	IT	3.373312e-03
201589_at	IT	2.748613e-03	207347_at	IT	3.373312e-03
200864_s_at	IT	2.748613e-03	205263_at	IT	3.373312e-03
202852_s_at	IT	2.786303e-03	200070_at	IT	3.373312e-03
207121_s_at	IT	2.786303e-03	201863_at	IT	3.373312e-03
209610_s_at	IT	2.838844e-03	201173_x_at	IT	3.373312e-03
204859_s_at	IT	2.930697e-03	201761_at	IT	3.373312e-03
203362_s_at	IT	2.930697e-03	220088_at	IT	3.392995e-03
222077_s_at	IT	2.930697e-03	219157_at	IT	3.392995e-03
206240_s_at	IT	2.930697e-03	212261_at	IT	3.392995e-03
208994_s_at	IT	2.930697e-03	218404_at	IT	3.392995e-03
32032_at	IT	3.00947e-03	218383_at	IT	3.392995e-03
214511_x_at	IT	3.00947e-03	217232_x_at	IT	3.392995e-03

204688_at	IT	3.392995e-03	212208_at	IT	3.841973e-03
211742_s_at	IT	3.392995e-03	202543_s_at	IT	3.841973e-03
202182_at	IT	3.392995e-03	205013_s_at	IT	3.841973e-03
206183_s_at	IT	3.392995e-03	208066_s_at	IT	3.841973e-03
206592_s_at	IT	3.392995e-03	208039_at	IT	3.841973e-03
209418_s_at	IT	3.392995e-03	208527_x_at	IT	3.841973e-03
209033_s_at	IT	3.392995e-03	200696_s_at	IT	3.841973e-03
200660_at	IT	3.392995e-03	200785_s_at	IT	3.841973e-03
200822_x_at	IT	3.392995e-03	200739_s_at	IT	3.841973e-03
200059_s_at	IT	3.392995e-03	201221_s_at	IT	3.841973e-03
201586_s_at	IT	3.392995e-03	201772_at	IT	3.841973e-03
201422_at	IT	3.392995e-03	53912_at	IT	3.875206e-03
209653_at	IT	3.423168e-03	219426_at	IT	3.875206e-03
207085_x_at	IT	3.423168e-03	214440_at	IT	3.875206e-03
206075_s_at	IT	3.428861e-03	217826_s_at	IT	3.875206e-03
217839_at	IT	3.448507e-03	217788_s_at	IT	3.875206e-03
219158_s_at	IT	3.514973e-03	218273_s_at	IT	3.875206e-03
206829_x_at	IT	3.514973e-03	203319_s_at	IT	3.875206e-03
209333_at	IT	3.514973e-03	221539_at	IT	3.875206e-03
206698_at	IT	3.544842e-03	221006_s_at	IT	3.875206e-03
219717_at	IT	3.56081e-03	210200_at	IT	3.875206e-03
203234_at	IT	3.564045e-03	202160_at	IT	3.875206e-03
213956_at	IT	3.583928e-03	202362_at	IT	3.875206e-03
217729_s_at	IT	3.583928e-03	202239_at	IT	3.875206e-03
203713_s_at	IT	3.583928e-03	209018_s_at	IT	3.875206e-03
221507_at	IT	3.583928e-03	208946_s_at	IT	3.875206e-03
205297_s_at	IT	3.583928e-03	208438_s_at	IT	3.875206e-03
201369_s_at	IT	3.583928e-03	207974_s_at	IT	3.875206e-03
202374_s_at	IT	3.594665e-03	208647_at	IT	3.875206e-03
214813_at	IT	3.607774e-03	200039_s_at	IT	3.875206e-03
40149_at	IT	3.61643e-03	200838_at	IT	3.875206e-03
212666_at	IT	3.61643e-03	200960_x_at	IT	3.875206e-03
212895_s_at	IT	3.61643e-03	201172_x_at	IT	3.875206e-03
212899_at	IT	3.61643e-03	200896_x_at	IT	3.875206e-03
217907_at	IT	3.61643e-03	206697_s_at	IT	3.90625e-03
218071_s_at	IT	3.61643e-03	207117_at	IT	3.90625e-03
210283_x_at	IT	3.61643e-03	206028_s_at	IT	3.90625e-03
202247_s_at	IT	3.61643e-03	218773_s_at	IT	3.965097e-03
208660_at	IT	3.61643e-03	218761_at	IT	3.965097e-03
200870_at	IT	3.61643e-03	213741_s_at	IT	3.965097e-03
218846_at	IT	3.669022e-03	218124_at	IT	3.965097e-03
214430_at	IT	3.669022e-03	218364_at	IT	3.965097e-03
202446_s_at	IT	3.669022e-03	204646_at	IT	3.965097e-03
206790_s_at	IT	3.669022e-03	221263_s_at	IT	3.965097e-03
205504_at	IT	3.669022e-03	220947_s_at	IT	3.965097e-03
200744_s_at	IT	3.669022e-03	210644_s_at	IT	3.965097e-03
201322_at	IT	3.669022e-03	202961_s_at	IT	3.965097e-03
201237_at	IT	3.669022e-03	202325_s_at	IT	3.965097e-03
201343_at	IT	3.669022e-03	202469_s_at	IT	3.965097e-03
210775_x_at	IT	3.673956e-03	202611_s_at	IT	3.965097e-03
205996_s_at	IT	3.673956e-03	202654_x_at	IT	3.965097e-03
201264_at	IT	3.673956e-03	202836_s_at	IT	3.965097e-03
210667_s_at	IT	3.687761e-03	202215_s_at	IT	3.965097e-03
204467_s_at	IT	3.705799e-03	205033_s_at	IT	3.965097e-03
219672_at	IT	3.757578e-03	205590_at	IT	3.965097e-03
205950_s_at	IT	3.757578e-03	200777_s_at	IT	3.965097e-03
206834_at	IT	3.757578e-03	201862_s_at	IT	3.965097e-03
219797_at	IT	3.841973e-03	201086_x_at	IT	3.965097e-03
216221_s_at	IT	3.841973e-03	201441_at	IT	3.965097e-03
218291_at	IT	3.841973e-03	201866_s_at	IT	3.965097e-03
203594_at	IT	3.841973e-03	200981_x_at	IT	3.965097e-03
221749_at	IT	3.841973e-03	219229_at	IT	3.976464e-03
221778_at	IT	3.841973e-03	218534_s_at	IT	3.976464e-03
209549_s_at	IT	3.841973e-03	219549_s_at	IT	3.976464e-03

214919_s_at	1T	3.976464e-03	208767_s_at	IT	4.519381e-03
212752_at	1T	3.976464e-03	200043_at	IT	4.519381e-03
212802_s_at	1T	3.976464e-03	200046_at	IT	4.519381e-03
218223_s_at	1T	3.976464e-03	201823_s_at	IT	4.519381e-03
217886_at	1T	3.976464e-03	202382_s_at	IT	4.530407e-03
218262_at	1T	3.976464e-03	209643_s_at	IT	4.587769e-03
218093_s_at	1T	3.976464e-03	218471_s_at	IT	4.630045e-03
218008_at	1T	3.976464e-03	203945_at	IT	4.648429e-03
217978_s_at	1T	3.976464e-03	218129_s_at	IT	4.683352e-03
217794_at	1T	3.976464e-03	213133_s_at	IT	4.763515e-03
221516_s_at	1T	3.976464e-03	219929_s_at	IT	4.799974e-03
221666_s_at	1T	3.976464e-03	208926_at	IT	4.799974e-03
221741_s_at	1T	3.976464e-03	218799_at	IT	4.811314e-03
211783_s_at	1T	3.976464e-03	212025_s_at	IT	4.814185e-03
202687_s_at	1T	3.976464e-03	202807_s_at	IT	4.814185e-03
203039_s_at	1T	3.976464e-03	202764_at	IT	4.814185e-03
203107_x_at	1T	3.976464e-03	209060_x_at	IT	4.814185e-03
202457_s_at	1T	3.976464e-03	207667_s_at	IT	4.814185e-03
202941_at	1T	3.976464e-03	220292_at	IT	4.952207e-03
205255_x_at	1T	3.976464e-03	218597_s_at	IT	4.984047e-03
208970_s_at	1T	3.976464e-03	210504_at	IT	4.984047e-03
209187_at	1T	3.976464e-03	218896_s_at	IT	4.98681e-03
209185_s_at	1T	3.976464e-03	214629_x_at	IT	4.98681e-03
209286_at	1T	3.976464e-03	215000_s_at	IT	4.98681e-03
200630_x_at	1T	3.976464e-03	212552_at	IT	4.98681e-03
201662_s_at	1T	3.976464e-03	217745_s_at	IT	4.98681e-03
218332_at	1T	4.035319e-03	203518_at	IT	4.98681e-03
215603_x_at	1T	4.035319e-03	203880_at	IT	4.98681e-03
204798_at	1T	4.035319e-03	203630_s_at	IT	4.98681e-03
208490_x_at	1T	4.059465e-03	212072_s_at	IT	4.98681e-03
206235_at	1T	4.079996e-03	211043_s_at	IT	4.98681e-03
215438_x_at	1T	4.145554e-03	202629_at	IT	4.98681e-03
209972_s_at	1T	4.191612e-03	202663_at	IT	4.98681e-03
217786_at	1T	4.229531e-03	206571_s_at	IT	4.98681e-03
208315_x_at	1T	4.230319e-03	208018_s_at	IT	4.98681e-03
202401_s_at	1T	4.248837e-03	208319_s_at	IT	4.98681e-03
48612_at	1T	4.310979e-03	209076_s_at	IT	4.98681e-03
217977_at	1T	4.310979e-03	209250_at	IT	4.98681e-03
217916_s_at	1T	4.310979e-03	200753_x_at	IT	4.98681e-03
203433_at	1T	4.310979e-03	201133_s_at	IT	4.98681e-03
210466_s_at	1T	4.310979e-03	201114_x_at	IT	4.98681e-03
207801_s_at	1T	4.310979e-03	206208_at	IT	5.005768e-03
208895_s_at	1T	4.310979e-03	201936_s_at	IT	5.082755e-03
200055_at	1T	4.310979e-03	219394_at	IT	5.118591e-03
204366_s_at	1T	4.403357e-03	212657_s_at	IT	5.118591e-03
201191_at	1T	4.48328e-03	201456_s_at	IT	5.118591e-03
201897_s_at	1T	4.515314e-03	201390_s_at	IT	5.118591e-03
212452_x_at	1T	4.51613e-03	201594_s_at	IT	5.118591e-03
218805_at	1T	4.519381e-03	212629_s_at	IT	5.188923e-03
219947_at	1T	4.519381e-03	208685_x_at	IT	5.188923e-03
212740_at	1T	4.519381e-03	201541_s_at	IT	5.188923e-03
212663_at	1T	4.519381e-03	220162_s_at	IT	5.245277e-03
218237_s_at	1T	4.519381e-03	203566_s_at	IT	5.277924e-03
204249_s_at	1T	4.519381e-03	210117_at	IT	5.277924e-03
221235_s_at	1T	4.519381e-03	202257_s_at	IT	5.339643e-03
221482_s_at	1T	4.519381e-03	205040_at	IT	5.339643e-03
209911_x_at	1T	4.519381e-03	58367_s_at	IT	5.346857e-03
203253_s_at	1T	4.519381e-03	218628_at	IT	5.346857e-03
202478_at	1T	4.519381e-03	220113_x_at	IT	5.346857e-03
202277_at	1T	4.519381e-03	213128_s_at	IT	5.346857e-03
203202_at	1T	4.519381e-03	213292_s_at	IT	5.346857e-03
202635_s_at	1T	4.519381e-03	217825_s_at	IT	5.346857e-03
205003_at	1T	4.519381e-03	203292_s_at	IT	5.346857e-03
209103_s_at	1T	4.519381e-03	203665_at	IT	5.346857e-03

Probe	Call	p-value	Probe	Call	p-value
2b4o82jtr	IT	5.-14.68.57e-03	201582 _at	IT	5.757883e-03
203561_at	IT	5.346857e-03	219869 _s_at	IT	5.810451e-03
203732_at	IT	5.346857e-03	220112 "_at	IT	5.895649e-03
221218_s_at	IT	5.346857e-03	213361 _at	IT	5.895649e-03
211696_x_at	IT	5.346857e-03	210288 "_at	IT	5.895649e-03
210926_at	IT	5.346857e-03	209579 "_s_at	IT	5.895649e-03
202181_at	IT	5.346857e-03	209555 "_s_at	IT	5.895649e-03
202907_s_at	IT	5.346857e-03	210140 _at	IT	5.895649e-03
202089_s_at	IT	5.346857e-03	200794 "_x_at	IT	5.895649e-03
204924_at	IT	5.346857e-03	219324 "_at	IT	6.022988e-03
205756_s_at	IT	5.346857e-03	204264 _at	IT	6.030607e-03
207857_at	IT	5.346857e-03	218039 "_at	IT	6.043299e-03
208878_s_at	IT	5.346857e-03	203884 "_s_at	IT	6.043299e-03
207922_s_at	IT	5.346857e-03	221014 "_s_at	IT	6.043299e-03
200667_at	IT	5.346857e-03	210145 "_at	IT	6.043299e-03
200869_at	IT	5.346857e-03	202650 "_s_at	IT	6.043299e-03
201816_s_at	IT	5.346857e-03	209960 _at	IT	6.043997e-03
20854 6_x_at	IT	5.377036e-03	221041 _s_at	IT	6.072927e-03
210031_at	IT	5.385904e-03	209799 _at	IT	6.072927e-03
210875_s_at	IT	5.470777e-03	207384 _at	IT	6.072927e-03
AFFX-HUMGAPDH/M33197	IT	5.573953e-03	203857 "_s_at	IT	6.157477e-03
21998 1_x_at	IT	5.573953e-03	219931 "_s_at	IT	6.162037e-03
218522_s_at	IT	5.573953e-03	219669 "_at	IT	6.162037e-03
219356_s_at	IT	5.573953e-03	208353 "_x_at	IT	6.162037e-03
218323_at	IT	5.573953e-03	201482 "[at	IT	6.162037e-03
220939_s_at	IT	5.573953e-03	202018 "_s_at	IT	6.177698e-03
22214 3_s_at	IT	5.573953e-03	204767 _s_at	IT	6.227444e-03
211730_s_at	IT	5.573953e-03	219544 _at	IT	6.430016e-03
210340_s_at	IT	5.573953e-03	203275 "_at	IT	6.430016e-03
211755_s_at	IT	5.573953e-03	203761 "_at	IT	6.430016e-03
202532_s_at	IT	5.573953e-03	203416 "_at	IT	6.430016e-03
202660_at	IT	5.573953e-03	210249 _s_at	IT	6.430016e-03
202334_s_at	IT	5.573953e-03	202742 _s_at	IT	6.430016e-03
203011_at	IT	5.573953e-03	209005 _at	IT	6.430016e-03
205690_s_at	IT	5.573953e-03	209218 "_at	IT	6.430016e-03
207205_at	IT	5.573953e-03	202129 _s_at	IT	6.449224e-03
209221_s_at	IT	5.573953e-03	204489 _s_at	IT	6.482834e-03
208684_at	IT	5.573953e-03	203309 _s_at	IT	6.482834e-03
208943_s_at	IT	5.573953e-03	210176 "_at	IT	6.482834e-03
208716_s_at	IT	5.573953e-03	207610 _s_at	IT	6.482834e-03
200623_s_at	IT	5.573953e-03	208238 "_x_at	IT	6.544211e-03
200007_at	IT	5.573953e-03	213513 "_x_at	IT	6.595623e-03
200087_s_at	IT	5.573953e-03	212737 "_at	IT	6.595623e-03
200620_at	IT	5.573953e-03	212726 "_at	IT	6.595623e-03
201954_at	IT	5.573953e-03	218426 "_s_at	IT	6.595623e-03
201705_at	IT	5.573953e-03	203445 "_s_at	IT	6.595623e-03
221932_s_at	IT	5.648897e-03	202447 _at	IT	6.595623e-03
218603_at	IT	5.651558e-03	201089 _at	IT	6.595623e-03
219485_s_at	IT	5.651558e-03	201574 "_at	IT	6.595623e-03
217800_s_at	IT	5.651558e-03	201176 _s_at	IT	6.595623e-03
221829_s_at	IT	5.651558e-03	209831 _x_at	IT	6.599339e-03
212184_s_at	IT	5.651558e-03	204599 _s_at	IT	6.621811e-03
209860_s_at	IT	5.651558e-03	218588 _[s_at	IT	6.722336e-03
202540_s_at	IT	5.651558e-03	213061 _s_at	IT	6.722336e-03
202484_s_at	IT	5.651558e-03	218394 _at	IT	6.722336e-03
202097_at	IT	5.651558e-03	218213 _s_at	IT	6.722336e-03
202553_s_at	IT	5.651558e-03	217758 "_s_at	IT	6.722336e-03
205370_x_at	IT	5.651558e-03	218037 [at	IT	6.722336e-03
201606_s_at	IT	5.651558e-03	204246 "_s_at	IT	6.722336e-03
201535_at	IT	5.651558e-03	203992 _s_at	IT	6.722336e-03
201351_s_at	IT	5.651558e-03	211984 _at	IT	6.722336e-03
201181_at	IT	5.651558e-03	200786 [at	IT	6.722336e-03
214606 _at	IT	5.702881e-03	200857 "_s_at	IT	6.722336e-03
			201012 _at	IT	6.722336e-03

201518_at	IT	6.722336e-03
220078_at	IT	6.755623e-03
212634_at	IT	6.755623e-03
218006_s_at	IT	6.755623e-03
210981_s_at	IT	6.755623e-03
202208_s_at	IT	6.755623e-03
203247_s_at	IT	6.755623e-03
201959_s_at	IT	6.755623e-03
200789_at	IT	6.801333e-03
216088_s_at	IT	6.863627e-03
202794_at	IT	6.863627e-03
208955_at	IT	6.863627e-03
201549_x_at	IT	6.863627e-03
203746_s_at	IT	7.022482e-03
207093_s_at	IT	7.145731e-03
210692_s_at	IT	7.147324e-03
206816_s_at	IT	7.161915e-03
218841_at	IT	7.173589e-03
212864_at	IT	7.173589e-03
218157_x_at	IT	7.173589e-03
204446_s_at	IT	7.173589e-03
202207_at	IT	7.173589e-03
202373_s_at	IT	7.173589e-03
203110_at	IT	7.173589e-03
208875_s_at	IT	7.173589e-03
200035_at	IT	7.173589e-03
201899_s_at	IT	7.173589e-03
220953_s_at	IT	7.178457e-03
211609_x_at	IT	7.270963e-03
209514_s_at	IT	7.270963e-03
202569_s_at	IT	7.270963e-03
205174_s_at	IT	7.270963e-03
209186_at	IT	7.270963e-03
201527_at	IT	7.270963e-03
218942_at	IT	7.35168e-03
212462_at	IT	7.394365e-03
213958_at	IT	7.394365e-03
220050_at	IT	7.460907e-03
209129_at	IT	7.460907e-03
209500_x_at	IT	7.502809e-03
202241_at	IT	7.502809e-03
203185_at	IT	7.502809e-03
207275_s_at	IT	7.502809e-03
208200_at	IT	7.502809e-03
200725_x_at	IT	7.502809e-03
44111_at	IT	7.590603e-03
37943_at	IT	7.590603e-03
52169_at	IT	7.590603e-03
219734_at	IT	7.590603e-03
212599_at	IT	7.590603e-03
212322_at	IT	7.590603e-03
218142_s_at	IT	7.590603e-03
218102_at	IT	7.590603e-03
218085_at	IT	7.590603e-03
204244_s_at	IT	7.590603e-03
211433_x_at	IT	7.590603e-03
202163_s_at	IT	7.590603e-03
202874_s_at	IT	7.590603e-03
207719_x_at	IT	7.590603e-03
209130_at	IT	7.590603e-03
208056_s_at	IT	7.590603e-03
200037_s_at	IT	7.590603e-03
200594_x_at	IT	7.590603e-03
201588_at	IT	7.590603e-03
201865_x_at	IT	7.590603e-03
219112_at	IT	7.651925e-03
213084_x_at	IT	7.651925e-03
212519_at	IT	7.651925e-03
218202_x_at	IT	7.651925e-03
217845_x_at	IT	7.651925e-03
203814_s_at	IT	7.651925e-03
220761_s_at	IT	7.651925e-03
202645_s_at	IT	7.651925e-03
202025_x_at	IT	7.651925e-03
205603_s_at	IT	7.651925e-03
206061_s_at	IT	7.651925e-03
206026_s_at	IT	7.651925e-03
209380_s_at	IT	7.651925e-03
208825_x_at	IT	7.651925e-03
208834_x_at	IT	7.651925e-03
200736_s_at	IT	7.651925e-03
201491_at	IT	7.651925e-03
201009_s_at	IT	7.651925e-03
200983_x_at	IT	7.651925e-03
219070_s_at	IT	7.659147e-03
204409_s_at	IT	7.659147e-03
219161_s_at	IT	7.693053e-03
215193_x_at	IT	7.693053e-03
217742_s_at	IT	7.693053e-03
204204_at	IT	7.693053e-03
208741_at	IT	7.693053e-03
200814_at	IT	7.693053e-03
201384_s_at	IT	7.693053e-03
212259_s_at	IT	7.803049e-03
204275_at	IT	7.803049e-03
200968_s_at	IT	7.803049e-03
218350_s_at	IT	7.803961e-03
218669_at	IT	7.817634e-03
220052_s_at	IT	7.817634e-03
217815_at	IT	7.817634e-03
204177_s_at	IT	7.817634e-03
204206_at	IT	7.817634e-03
221046_s_at	IT	7.817634e-03
209943_at	IT	7.817634e-03
202592_at	IT	7.817634e-03
205510_s_at	IT	7.817634e-03
208678_at	IT	7.817634e-03
201128_s_at	IT	7.817634e-03
218930_s_at	IT	7.838573e-03
213571_s_at	IT	7.838573e-03
217882_at	IT	7.838573e-03
221234_s_at	IT	7.838573e-03
209574_s_at	IT	7.838573e-03
202462_s_at	IT	7.838573e-03
205992_s_at	IT	7.838573e-03
201088_at	IT	7.838573e-03
217016_x_at	IT	7.894658e-03
209044_x_at	IT	7.894658e-03
201745_at	IT	7.894658e-03
49077_at	IT	7.915783e-03
221601_s_at	IT	7.9437e-03
201929_s_at	IT	7.983876e-03
216125_s_at	IT	8.1e-03
205640_at	IT	8.1e-03
201095_at	IT	8.1e-03
206920_s_at	IT	8.210972e-03
220009_at	IT	8.237354e-03
218996_at	IT	8.30024e-03

213127_s_at	IT	8.345408e-03	200772_x_at	IT	9.485754e-03
203134_at	IT	8.403043e-03	203394_s_at	IT	9.582377e-03
214866_at	IT	8.469708e-03	204858_s_at	IT	9.591463e-03
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64438_at	IT	8.505735e-03	210044__s_at	IT	9.596659e-03
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207358_x_at	IT	8.505735e-03	202527_s_at	IT	9.678318e-03
207986_x_at	IT	8.505735e-03	206050_s_at	IT	9.678318e-03
200823_x_at	IT	8.505735e-03	20571β_at	IT	9.678318e-03
201553_s_at	IT	8.505735e-03	207700_s_at	IT	9.678318e-03
220001_at	IT	8.75722e-03	200040_at	IT	9.678318e-03
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205401_at	IT	8.75722e-03	201713_s_at	IT	9.678318e-03
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512

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219952_s_at	IT	0.02		218782_s_at	IT	0.02
207554_x_at	IT	0.02		218344_s_at	IT	0.02
200851_s_at	IT	0.02		218019_s_at	IT	0.02
219963_at	IT	0.02		221553_at	IT	0.02
209772_s_at	IT	0.02		205158_at	IT	0.02
202278_s_at	IT	0.02		203347_s_at	IT	0.02
200704_at	IT	0.02		210205_at	IT	0.02
218997_at	IT	0.02		211332_x_at	IT	0.02
35201_at	IT	0.02		214594_x_at	IT	0.02
214022_s_at	IT	0.02		213671_s_at	IT	0.02
218729_at	IT	0.02		222052_at	IT	0.02
220710_at	IT	0.02		220864_s_at	IT	0.02
203302_at	IT	0.02		211474_s_at	IT	0.02
215236_s_at	IT	0.02		202638_s_at	IT	0.02
200752_s_at	IT	0.02		202544_at	IT	0.02
217480_x_at	IT	0.02		200703_at	IT	0.02
211136_s_at	IT	0.02		205394_at	IT	0.02
213687_s_at	IT	0.02		39402_at	IT	0.02
218333_at	IT	0.02		212315_s_at	IT	0.02
204313_s_at	IT	0.02		221658_s_at	IT	0.02
221819_at	IT	0.02		202954_at	IT	0.02
632_at	IT	0.02		201765_s_at	IT	0.02
221588_x_at	IT	0.02		204150_at	IT	0.02
209375_at	IT	0.02		203960_s_at	IT	0.02
206063_x_at	IT	0.02		217930_s_at	IT	0.02
74694_s_at	IT	0.02		217888_s_at	IT	0.02
218519_at	IT	0.02		221764_at	IT	0.02
214315_x_at	IT	0.02		220391_at	IT	0.02
212403_at	IT	0.02		204669_s_at	IT	0.02
214783_s_at	IT	0.02		218676_s_at	IT	0.02
218228_s_at	IT	0.02		218502_s_at	IT	0.02
204800_s_at	IT	0.02		218809_at	IT	0.02
203663_s_at	IT	0.02		217900_at	IT	0.02
204038_s_at	IT	0.02		217836_s_at	IT	0.02

217730_at	IT	0.02		202749_at	IT	0.02
218034_at	IT	0.02		201928_at	IT	0.02
203525_s_at	IT	0.02		218132_s_at	IT	0.02
203384_s_at	IT	0.02		200615_s_at	IT	0.02
209481_at	IT	0.02		202371_at	IT	0.02
211671_s_at	IT	0.02		211578_s_at	IT	0.02
202662_s_at	IT	0.02		205911_at	IT	0.02
202136_at	IT	0.02		91684_g_at	IT	0.02
202606_s_at	IT	0.02		37965_at	IT	0.02
202798_at	IT	0.02		219960_s_at	IT	0.02
202244_at	IT	0.02		221776_s_at	IT	0.02
202665_s_at	IT	0.02		211733_x_at	IT	0.02
208809_s_at	IT	0.02		202066_at	IT	0.02
209207_s_at	IT	0.02		208756_at	IT	0.02
201631_s_at	IT	0.02		203166_at	IT	0.02
202391_at	IT	0.02		201814_at	IT	0.02
207943_x_at	IT	0.02		201093_x_at	IT	0.02
204295_at	IT	0.02		201002_s_at	IT	0.02
219528_s_at	IT	0.02		217799_x_at	IT	0.02
218520_at	IT	0.02		207447_s_at	IT	0.02
212888_at	IT	0.02		203686_at	IT	0.02
203385_at	IT	0.02		214561_at	IT	0.02
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209510_at	IT	0.02		219329_s_at	IT	0.02
202918_s_at	IT	0.02		212833_at	IT	0.02
208873_s_at	IT	0.02		217887_s_at	IT	0.02
219004_s_at	IT	0.02		216899_s_at	IT	0.02
203094_at	IT	0.02		203743_s_at	IT	0.02
206513_at	IT	0.02		204690_at	IT	0.02
200633_at	IT	0.02		221430_s_at	IT	0.02
208442_s_at	IT	0.02		202605_at	IT	0.02
219680_at	IT	0.02		203077_s_at	IT	0.02
203757_s_at	IT	0.02		207809_s_at	IT	0.02
209098_s_at	IT	0.02		209154_at	IT	0.02
213404_s_at	IT	0.02		209003_at	IT	0.02
211758_x_at	IT	0.02		201850_at	IT	0.02
221486_at	IT	0.02		219520_s_at	IT	0.02
203144_s_at	IT	0.02		213867_x_at	IT	0.02
222029_x_at	IT	0.02		211202_s_at	IT	0.02
219667_s_at	IT	0.02		208663_s_at	IT	0.02
219163_at	IT	0.02		220132_s_at	IT	0.02
203669_s_at	IT	0.02		218518_at	IT	0.02
222132_s_at	IT	0.02		212836_at	IT	0.02
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218345_at	IT	0.02		214773_x_at	IT	0.02
221515_s_at	IT	0.02		203958_s_at	IT	0.02
209894_at	IT	0.02		211097_s_at	IT	0.02
31835_at	IT	0.02		202968_s_at	IT	0.02
218827_s_at	IT	0.02		208325_s_at	IT	0.02
216071_x_at	IT	0.02		213351_s_at	IT	0.02
202944_at	IT	0.02		218159_at	IT	0.02
205269_at	IT	0.02		208911_s_at	IT	0.02
207657_x_at	IT	0.02		220746_s_at	IT	0.02
201407_s_at	IT	0.02		220941_s_at	IT	0.02
205205_at	IT	0.02		202412_s_at	IT	0.02
37986_at	IT	0.02		55872_at	IT	0.02
205898_at	IT	0.02		218122_s_at	IT	0.02
220925_at	IT	0.02		217749_at	IT	0.02
218539_at	IT	0.02		203985_at	IT	0.02
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219493_at	IT	0.02		203304_at	IT	0.02
212786_at	IT	0.02		218580_x_at	IT	0.02

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201563_at	IT	0.02	205930_at	IT	0.03
201999_s_at	IT	0.02	200716_x_at	IT	0.03
217830_s_at	IT	0.02	201597_at	IT	0.03
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212465_at	IT	0.02	218424_s_at	IT	0.03
212697_at	IT	0.02	205832_at	IT	0.03
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212356_at	IT	0.02	48825_at	IT	0.03
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204118_at	IT	0.02	220244_at	IT	0.03
205245_at	IT	0.02	218652_s_at	IT	0.03
205451_at	IT	0.02	211581_x_at	IT	0.03
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212936_at	IT	0.02	217797_at	IT	0.03
218168_s_at	IT	0.02	203667_at	IT	0.03
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221474_at	IT	0.02	203082_at	IT	0.03
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216105_x_at	IT	0.03	214730_s_at	IT	0.03
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202873_at	IT	0.03	203306_s_at	IT	0.03
200676_s_at	IT	0.03	203707_at	IT	0.03
209605_at	IT	0.03	203447_at	IT	0.03
201171_at	IT	0.03	200943_at	IT	0.03
207596_at	IT	0.03	212249_at	IT	0.03
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202124_s_at	IT	0.03	202027_at	IT	0.03
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201867_s_at	IT	0.03	213554_s_at	IT	0.03
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219065_s_at	IT	0.03	200030_s_at	IT	0.03
217725_x_at	IT	0.03	212926_at	IT	0.03
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202623_at	IT	0.03	211286_x_at	IT	0.03
208648_at	IT	0.03	214414_x_at	IT	0.03
208800_at	IT	0.03	202445_s_at	IT	0.03
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203573_s_at	IT	0.03	215977_x_at	IT	0.03
40255_at	IT	0.03	216282_x_at	IT	0.03
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218379_at	IT	0.03	202848_s_at	IT	0.03
203513_at	IT	0.03	203196_at	IT	0.03
221428_s_at	IT	0.03	202330_s_at	IT	0.03
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219409_at	IT	0.03	208894_at	IT	0.03
211913_s_at	IT	0.03	209259_s_at	IT	0.03
214895_s_at	IT	0.03	218314_s_at	IT	0.03
203584_at	IT	0.03	218118_s_at	IT	0.03
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206559_x_at	IT	0.03	220500_s_at	IT	0.03
208877_at	IT	0.03	220995_at	IT	0.03
208734_x_at	IT	0.03	209426_s_at	IT	0.03
201794_s_at	IT	0.03	212036_s_at	IT	0.03
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206649_s_at	IT	0.03	38892_at	IT	0.03
89948_at	IT	0.03	218134_s_at	IT	0.03
203132_at	IT	0.03	210624_s_at	IT	0.03
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204287_at	IT	0.03	222082_at	IT	0.03
210009_s_at	IT	0.03	202279_at	IT	0.03
203223_at	IT	0.03	201201_at	IT	0.03
203100_s_at	IT	0.03	201604_s_at	IT	0.03
219497_s_at	IT	0.03	201255_x_at	IT	0.03
205285_s_at	IT	0.03	217817_at	IT	0.03
200707_at	IT	0.03	221790_s_at	IT	0.03
206132_at	IT	0.03	209258_s_at	IT	0.03
205525_at	IT	0.03	220881_at	IT	0.03
212658_at	IT	0.03	203361_s_at	IT	0.03
221158_at	IT	0.03	221028_s_at	IT	0.03
203147_s_at	IT	0.03	201069_at	IT	0.03
208812_x_at	IT	0.03	214136_at	IT	0.03
201833_at	IT	0.03	203971_at	IT	0.03
202637_s_at	IT	0.03	203856_at	IT	0.03
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220800_s_at	IT	0.03	218559_s_at	IT	0.03
211921_x_at	IT	0.03	217738_at	IT	0.03
218586_at	IT	0.03	208549_x_at	IT	0.03
218301_at	IT	0.03	218277_s_at	IT	0.03
208815_x_at	IT	0.03	218139_s_at	IT	0.03
209112_at	IT	0.03	204809_at	IT	0.03
211252_x_at	IT	0.03	203514_at	IT	0.03
214878_at	IT	0.03	205596_s_at	IT	0.03
212570_at	IT	0.03	208030_s_at	IT	0.03
204687_at	IT	0.03	201824_at	IT	0.03
209791_at	IT	0.03	200891_s_at	IT	0.03
205052_at	IT	0.03	219657_s_at	IT	0.03
52159_at	IT	0.03	218185_s_at	IT	0.03
213578_at	IT	0.03	212102_s_at	IT	0.03
78047_s_at	IT	0.03	205702_at	IT	0.03
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202642_s_at	IT	0.03	212757_s_at	IT	0.03
203064_s_at	IT	0.03	203522_at	IT	0.03
218376_s_at	IT	0.03	205645_at	IT	0.03
217673_x_at	IT	0.03	39313_at	IT	0.03
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212066_s_at	IT	0.03	214246_x_at	IT	0.03
202567_at	IT	0.03	203383_s_at	IT	0.03
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211067_s_at	IT	0.03	202435_s_at	IT	0.03
201248_s_at	IT	0.03	205462_s_at	IT	0.03
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47083_at	IT	0.03	201194_at	IT	0.03
209896_s_at	IT	0.03	219860_at	IT	0.03
202720_at	IT	0.03	220404_at	IT	0.03
205270_s_at	IT	0.03	213239_at	IT	0.03
206584_at	IT	0.03	216295_s_at	IT	0.03

221985_at	IT	0.03	201890_at	IT	0.04
209115_at	IT	0.03	204772_s_at	IT	0.04
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211794_at	IT	0.03	209390_at	IT	0.04
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219099_at	IT	0.03	32029_at	IT	0.04
212293_at	IT	0.03	203128_at	IT	0.04
217989_at	IT	0.03	210543_s_at	IT	0.04
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221421_s_at	IT	0.04	212007_at	IT	0.04
214081_at	IT	0.04	212076_at	IT	0.04
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218880_at	IT	0.04	215719_x_at	IT	0.04
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218448_at	IT	0.04	203387_s_at	IT	0.04
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208010_s_at	IT	0.04	201815_s_at	IT	0.04
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201543_s_at	IT	0.04	212081_x_at	IT	0.04
202719_s_at	IT	0.04	209880_s_at	IT	0.04
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202122_s_at	IT	0.04	202658_at	IT	0.04
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201700_at	IT	0.04	209166_s_at	IT	0.04
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200954_at	IT	0.04	203592_s_at	IT	0.04
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210772_at	IT	0.04	220532_s_at	IT	0.04
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207686_s_at	IT	0.04	201507_at	IT	0.04
219001_s_at	IT	0.04	201511_at	IT	0.04
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202485_s_at	IT	0.04	210407_at	IT	0.04
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209392_at	IT	0.04	222067_x_at	IT	0.04

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218531_at	IT	0.04	213006_at	IT	0.04
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221500_s_at	IT	0.04	217780_at	IU	3.7e-06
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201857_at	IT	0.04	202120_x_at	IU	6.55e-06
204427_s_at	IT	0.04	205090_s_at	IU	6.55e-06
206036_s_at	IT	0.04	208818_s_at	IU	6.55e-06
201673_s_at	IT	0.04	221218_s_at	IU	1.12e-05
53202_at	IT	0.04	209329_x_at	IU	1.12e-05
201774_s_at	IT	0.04	200078_s_at	IU	1.24e-05
203773_x_at	IT	0.04	201743_at	IU	1.38e-05
202093_s_at	IT	0.04	203189_s_at	IU	1.86e-05
201076_at	IT	0.04	208450_at	IU	1.89e-05
201913_s_at	IT	0.04	208540_x_at	IU	2.06e-05
220491_at	IT	0.04	213198_at	IU	2.84e-05
208309_s_at	IT	0.04	206380_s_at	IU	2.94e-05
218641_at	IT	0.04	219375_at	IU	2.99e-05
203328_x_at	IT	0.04	211630_s_at	IU	2.99e-05
204216_s_at	IT	0.04	207181_s_at	IU	2.99e-05
206267_s_at	IT	0.04	209232_s_at	IU	2.99e-05
34206_at	IT	0.04	209009_at	IU	2.99e-05
220023_at	IT	0.04	213470_s_at	IU	3.21e-05
214875_x_at	IT	0.04	206643_at	IU	3.3e-05
220999_s_at	IT	0.04	217949_s_at	IU	4.46e-05
210715_s_at	IT	0.04	218495_at	IU	4.69e-05
202566_s_at	IT	0.04	203645_s_at	IU	4.69e-05
202810_at	IT	0.04	221739_at	IU	4.69e-05
202009_at	IT	0.04	202201_at	IU	4.69e-05
209382_at	IT	0.04	209395_at	IU	5.59e-05
202479_s_at	IT	0.04	218109_s_at	IU	5.83e-05
219517_at	IT	0.04	216041_x_at	IU	5.83e-05
48531_at	IT	0.04	217946_s_at	IU	5.97e-05
215806_x_at	IT	0.04	205575_at	IU	6.64e-05
210555_s_at	IT	0.04	202638_s_at	IU	6.73e-05
209105_at	IT	0.04	210423_s_at	IU	6.93e-05
201408_at	IT	0.04	203721_s_at	IU	7.2e-05
201737_s_at	IT	0.04	218577_at	IU	7.78e-05
218725_at	IT	0.04	213624_at	IU	9.31e-05
213064_at	IT	0.04	209259_s_at	IU	1.01e-04
212665_at	IT	0.04	205174_s_at	IU	1.02e-04
202113_s_at	IT	0.04	213203_at	IU	1.08e-04
203057_s_at	IT	0.04	209790_s_at	IU	1.08e-04
202436_s_at	IT	0.04	202836_s_at	IU	1.08e-04
204994_at	IT	0.04	208308_s_at	IU	1.08e-04
208713_at	IT	0.04	200736_s_at	IU	1.08e-04
200693_at	IT	0.04	200652_at	IU	1.08e-04
201584_s_at	IT	0.04	201251_at	IU	1.08e-04
201585_s_at	IT	0.04	201990_s_at	IU	1.08e-04
201155_s_at	IT	0.04	201847_at	IU	1.08e-04
214787_at	IT	0.04	201231_s_at	IU	1.08e-04
207802_at	IT	0.04	223035_s_at	IU	1.11e-04
218420_s_at	IT	0.04	212830_at	IU	1.12e-04
205322_s_at	IT	0.04	212116_at	IU	1.12e-04
208932_at	IT	0.04	208146_s_at	IU	1.12e-04
216202_s_at	IT	0.04	200661_at	IU	1.12e-04
213400_s_at	IT	0.04	201118_at	IU	1.12e-04

20194 4_jat	IU	1.2e-04		200966 _x_at	IU	3.34e-04
209610 _s_at	IU	1.13e-04		201145 _at	IU	3.36e-04
207857 _at	IU	1.17e-04		213378 _s_at	IU	3.42e-04
206715 _at	IU	1.2e-04		219952 _s_at	IU	3.44e-04
214430 _at	IU	1.21e-04		205098 _at	IU	3.44e-04
201470 _at	IU	1.3e-04		206039 _at	IU	3.47e-04
201753 _s_at	IU	1.34e-04		204959 _at	IU	3.52e-04
210119 _at	IU	1.36e-04		219666 _at	IU	3.54e-04
211661 _x_at	IU	1.41e-04		214511 _x_at	IU	3.54e-04
215049 _x_at	IU	1.45e-04		218304 _s_at	IU	3.54e-04
218387 _s_at	IU	1.59e-04		204546 _at	IU	3.54e-04
218220 _at	IU	1.59e-04		211133 _x_at	IU	3.54e-04
204034 _at	IU	1.59e-04		210241 _s_at	IU	3.54e-04
202838 _at	IU	1.59e-04		205237 _at	IU	3.54e-04
201119 _s_at	IU	1.59e-04		208704 _x_at	IU	3.54e-04
221221 _s_at	IU	1.73e-04		220001 _at	IU	3.58e-04
53968 _at	IU	1.76e-04		204875 _s_at	IU	3.58e-04
217977 _at	IU	1.79e-04		221222 _s_at	IU	3.58e-04
205770 _at	IU	1.82e-04		208726 _s_at	IU	3.68e-04
200599 _s_at	IU	1.95e-04		219434 _at	IU	3.77e-04
214746 _s_at	IU	2.04e-04		211043 _s_at	IU	3.93e-04
212606 _at	IU	2.04e-04		207821 _s_at	IU	3.93e-04
218450 _at	IU	2.04e-04		36994 _at	IU	4.0e-04
217865 _at	IU	2.04e-04		219336 _s_at	IU	4.04e-04
204588 _s_at	IU	2.04e-04		203593 _at	IU	4.24e-04
209864 _at	IU	2.04e-04		203910 _at	IU	4.31e-04
205119 _s_at	IU	2.04e-04		220974 _x_at	IU	4.34e-04
204900 _x_at	IU	2.04e-04		201631 _s_at	IU	4.37e-04
200871 _s_at	IU	2.04e-04		202897 _at	IU	4.45e-04
201089 _at	IU	2.04e-04		219359 _at	IU	4.46e-04
203973 _s_at	IU	2.26e-04		206026 _s_at	IU	4.47e-04
213366 _x_at	IU	2.3e-04		218535 _s_at	IU	4.51e-04
217955 _at	IU	2.3e-04		35820 _at	IU	4.58e-04
217722 _s_at	IU	2.3e-04		219220 _x_at	IU	4.58e-04
221434 _s_at	IU	2.3e-04		220386 _s_at	IU	4.58e-04
211988 _at	IU	2.3e-04		219293 _s_at	IU	4.58e-04
202393 _s_at	IU	2.3e-04		220753 _s_at	IU	4.58e-04
203190 _at	IU	2.3e-04		203091 _at	IU	4.58e-04
205726 _at	IU	2.3e-04		202295 _s_at	IU	4.58e-04
208675 _s_at	IU	2.3e-04		202961 _s_at	IU	4.58e-04
200818 _at	IU	2.3e-04		202677 _at	IU	4.58e-04
200762 _at	IU	2.3e-04		208873 _s_at	IU	4.58e-04
200757 _s_at	IU	2.3e-04		201900 _s_at	IU	4.58e-04
201256 _at	IU	2.3e-04		201850 _at	IU	4.58e-04
218502 _s_at	IU	2.49e-04		223887 _at	IU	4.61e-04
211429 _s_at	IU	2.57e-04		218739 _at	IU	4.7e-04
200678 _x_at	IU	2.63e-04		31826 _at	IU	4.98e-04
219147 _s_at	IU	2.76e-04		216945 _x_at	IU	5.04e-04
208018 _s_at	IU	2.97e-04		204214 _s_at	IU	5.07e-04
202990 _at	IU	3.11e-04		212330 _at	IU	5.09e-04
203282 _at	IU	3.25e-04		218231 _at	IU	5.12e-04
218592 _s_at	IU	3.26e-04		206111 _at	IU	5.18e-04
213545 _x_at	IU	3.27e-04		218225 _at	IU	5.28e-04
212527 _at	IU	3.27e-04		201694 _s_at	IU	5.33e-04
218101 _s_at	IU	3.27e-04		205844 _at	IU	5.4e-04
204313 _s_at	IU	3.27e-04		211048 _s_at	IU	5.5e-04
204786 _s_at	IU	3.27e-04		206082 _at	IU	5.59e-04
202929 _s_at	IU	3.27e-04		203535 _at	IU	5.63e-04
209444 _at	IU	3.27e-04		221539 _at	IU	5.66e-04
208630 _at	IU	3.27e-04		205382 _s_at	IU	5.71e-04
208787 _at	IU	3.27e-04		219317 _at	IU	5.88e-04
200023 _s_at	IU	3.27e-04		204620 _s_at	IU	5.88e-04
201527 _at	IU	3.27e-04		209684 _at	IU	5.88e-04
200872 _at	IU	3.27e-04		209949 _at	IU	5.88e-04

206214 _at	IU	5.88e-04
205863 _at	IU	5.88e-04
208771 _s_at	IU	5.88e-04
208832 _at	IU	5.88e-04
217398 _x_at	IU	5.89e-04
227276 _at	IU	5.94e-04
218163 _at	IU	5.94e-04
219933 _at	IU	6.32e-04
214305 _s_at	IU	6.32e-04
218467 _at	IU	6.32e-04
218019 _s_at	IU	6.32e-04
218139 _s_at	IU	6.32e-04
203621 _at	IU	6.32e-04
203575 _at	IU	6.32e-04
204489 _s_at	IU	6.32e-04
221597 _s_at	IU	6.32e-04
209964 _s_at	IU	6.32e-04
203067 _at	IU	6.32e-04
207072 _at	IU	6.32e-04
208680 _at	IU	6.32e-04
208923 _at	IU	6.32e-04
201302 _at	IU	6.32e-04
200960 _x_at	IU	6.32e-04
201413 _at	IU	6.32e-04
201512 _s_at	IU	6.43e-04
207100 _s_at	IU	6.47e-04
200919 _at	IU	6.62e-04
216306 _x_at	IU	6.8e-04
204834 _at	IU	6.84e-04
213528 _at	IU	6.87e-04
215096 _s_at	IU	6.94e-04
211730 _s_at	IU	6.98e-04
213082 _s_at	IU	7.06e-04
200812._at	IU	7.08e-04
206472 _s_at	IU	7.11e-04
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201972 _at	IU	7.39e-04
212224 _at	IU	7.58e-04
217207 _s_at	IU	7.63e-04
200064 _at	IU	7.63e-04
211918 _x_at	IU	7.93e-04
210149 _s_at	IU	8.02e-04
202189 _x_at	IU	8.03e-04
238771 _at	IU	8.14e-04
200792 _at	IU	8.16e-04
224477 _s_at	IU	8.34e-04
202231 __at	IU	8.51e-04
202259 _s_at	IU	8.55e-04
203219 _s_at	IU	8.58e-04
48117 _at	IU	8.6e-04
220439 _at	IU	8.6e-04
216251 _s_at	IU	8.6e-04
218216 _x_at	IU	8.6e-04
217834 _s_at	IU	8.6e-04
218097 _s_at	IU	8.6e-04
221139 _s_at	IU	8.6e-04
210501 _x_at	IU	8.6e-04
202930 _s_at	IU	8.6e-04
200703 __at	IU	8.6e-04
200006 _at	IU	8.6e-04
200676 _s_at	IU	8.6e-04
208982 _at	IU	8.67e-04
209600 _s_at	IU	8.8e-04
217835 _x_at	IU	8.96e-04

206662 _at	IU	9.01e-04
212541 _at	IU	9.06e-04
219593 _at	IU	9.14e-04
201168 _x_at	IU	9.26e-04
218209 _s_at	IU	9.44e-04
217763 _s_at	IU	9.44e-04
218454 _at	IU	9.44e-04
217764 _s_at	IU	9.44e-04
204054 _at	IU	9.44e-04
203409 _at	IU	9.44e-04
203922 _s_at	IU	9.44e-04
211576 _s_at	IU	9.44e-04
209555 _s_at	IU	9.44e-04
212192 _at	IU	9.44e-04
202917 _s_at	IU	9.44e-04
203126 _at	IU	9.44e-04
203041 _s_at	IU	9.44e-04
202856 _s_at	IU	9.44e-04
206120 _at	IU	9.44e-04
201463 _s_at	IU	9.44e-04
201161 _s_at	IU	9.44e-04
200998 _s_at	IU	9.44e-04
203595 _s_at	IU	9.54e-04
211684 _s_at	IU	9.6e-04
200028 _s_at	IU	9.69e-04
212250 _at	IU	9.82e-04
203799 _at	IU	9.87e-04
206613 _s_at	IU	1.02191e-03
201348 _at	IU	1.024879e-03
201626 _at	IU	1.029633e-03
207705 _s_at	IU	1.050697e-03
220750 _s_at	IU	1.066501e-03
202369 _s_at	IU	1.088391e-03
200768 _s_at	IU	1.089403e-03
203765 _at	IU	1.098458e-03
203343 _at	IU	1.103889e-03
201693 _s_at	IU	1.116156e-03
207508 _at	IU	1.121806e-03
89476 _r_at	IU	1.12304e-03
202233 _s_at	IU	1.151267e-03
210427 _x_at	IU	1.154679e-03
219505 _at	IU	1.155468e-03
213128 _s_at	IU	1.155468e-03
212266 _s_at	IU	1.155468e-03
213892 _s_at	IU	1.155468e-03
213503 _x_at	IU	1.155468e-03
217959 _s_at	IU	1.155468e-03
218339 _at	IU	1.155468e-03
221494 _x_at	IU	1.155468e-03
221579 _s_at	IU	1.155468e-03
210046 _s_at	IU	1.155468e-03
202567 _at	IU	1.155468e-03
202655 _at	IU	1.155468e-03
202471 _s_at	IU	1.155468e-03
202110 _at	IU	1.155468e-03
202418 _at	IU	1.155468e-03
202282 _at	IU	1.155468e-03
202520 _s_at	IU	1.155468e-03
206050 _s_at	IU	1.155468e-03
209177 _at	IU	1.155468e-03
208905 _at	IU	1.155468e-03
200001 _at	IU	1.155468e-03
200807 _s_at	IU	1.155468e-03
201695 _s_at	IU	1.155468e-03

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201079_at	IU	1.155468e-03	202962_at	IU	1.534407e-03
200903_s_at	IU	1.155468e-03	205812_s_at	IU	1.534407e-03
200902_at	IU	1.161789e-03	206792_x_at	IU	1.534407e-03
202632_at	IU	1.168416e-03	207761_s_at	IU	1.534407e-03
211752_s_at	IU	1.201296e-03	208658_at	IU	1.534407e-03
200978_at	IU	1.218565e-03	200009_at	IU	1.534407e-03
200898_s_at	IU	1.220347e-03	200642_at	IU	1.534407e-03
202279_at	IU	1.235715e-03	200657_at	IU	1.534407e-03
219117_s_at	IU	1.248464e-03	217874_at	IU	1.536825e-03
44120_at	IU	1.257577e-03	202388_at	IU	1.538634e-03
220731_s_at	IU	1.259962e-03	218409_s_at	IU	1.54997e-03
217926_at	IU	1.265483e-03	208371_s_at	IU	1.568742e-03
201923_at	IU	1.274543e-03	218188_s_at	IU	1.569622e-03
218052_s_at	IU	1.283014e-03	212871_at	IU	1.573338e-03
219233_s_at	IU	1.292374e-03	202244_at	IU	1.599297e-03
204077_x_at	IU	1.292374e-03	202801_at	lÜ	1.611265e-03
205762_s_at	IU	1.292374e-03	216438_s_at	IU	1.614745e-03
209263_x_at	IU	1.292374e-03	202833_s_at	IU	1.649021e-03
221867_at	IU	1.29527e-03	200697_at	IU	1.66416e-03
211558_s_at	IU	1.300859e-03	226559_at	IU	1.691246e-03
209360~s_at	IU	1.303325e-03	217792_at	IU	1.728977e-03
222336_at	IU	1.32238e-03	200011_s_at	IU	1.740836e-03
65588_at	IU	1.324387e-03	202077_at	IU	1.741905e-03
41160_at	IU	1.324651e-03	203313_s_at	IU	1.752433e~03
202083_s_at	IU	1.347606e-03	220742_s_at	IU	1.768548e-03
206583_at	IU	1.349775e-03	206914_at	IU	1.769921e-03
201568_at	IU	1.362573e-03	202788_at	IU	1.778635e-03
215646_s_at	IU	1.36656e-03	205756_s_at	IU	1.788426e-03
209941_at	IU	1.375945e-03	206770_s_at	IU	1.791803e-03
206308_at	IU	1.383321e-03	201491_at	IU	1.796203e-03
219062_s_at	IU	1.417093e-03	219846_at	IU	1.797994e-03
202435_s_at	IU	1.420826e-03	218414_s_at	IU	1.810041e-03
212765_at	IU	1.424029e-03	221531_at	IU	1.810947e-03
38703_at	IU	1.425495e-03	225282_at	IU	1.844356e-03
205776_at	IU	1.431947e-03	201039_s_at	IU	1.848789e-03
211924_s_at	IU	1.445977e-03	218048_at	IU	1.859412e-03
219549_s_at	IU	1.465944e-03	201586_s_at	IU	1.86179e-03
219806_s_at	IU	1.465944e-03	218350_s_at	IU	1.86621e-03
219629_at	IU	1.465944e-03	201400_at	IU	1.866257e-03
218465_at	IU	1.465944e-03	214843_s_at	IU	1.883118e-03
221724_s_at	IU	1.465944e-03	218356_at	IU	1.903157e-03
211721_s_at	IU	1.465944e-03	213352_at	IU	1.931684e-03
202437_s_at	IU	1.465944e-03	200975_at	IU	1.931719e-03
202436_s_at	IU	1.465944e-03	217762_s_at	IU	1.94644e-03
206584_at	IU	1.465944e-03	201336_at	IU	1.948042e-03
201642_at	IU	1.465944e-03	205436_s_at	IU	1.95162e-03
213897_s_at	IU	1.508781e-03	200895_s_at	IU	1.9517e-03
209030_s_at	IU	1.511725e-03	36564_at	IU	1.958481e-03
206157_at	IU	1.516354e-03	218360_at	IU	1.990668e-03
202896_s_at	IU	1.527653e-03	221504_s_at	IU	1.996608e-03
213537_at	IU	1.528498e-03	207614_s_at	IU	1.999272e-03
208898_at	IU	1.531255e-03	201870_at	IU	2.011027e-03
201903_at	IU	1.534126e-03	212532_s_at	IU	2.014915e-03
220094_s_at	IU	1.534407e-03	213011_s_at	IU	2.014915e-03
219575_s_at	IU	1.534407e-03	217817_at	IU	2.014915e-03
218388_at	IU	1.534407e-03	218200_s_at	IU	2.014915e-03
218336_at	IU	1.534407e-03	217972_at	IU	2.014915e-03
217775_s_at	IU	1.534407e-03	204246_s_at	IU	2.014915e-03
204153_s_at	IU	1.534407e-03	203299_s_at	IU	2.014915e-03
203547_at	IU	1.534407e-03	211824_x_at	IU	2.014915e-03
221563_at	IU	1.534407e-03	210378_s_at	IU	2.014915e-03
221255_s_at	IU	1.534407e-03	209536_s_at	IU	2.014915e-03
211040_x_at	IU	1.534407e-03	202857_at	IU	2.014915e~03

200788 _s_at	IU	2.014915e-03	214687 _x_at	IU	2.436225e-03
200822 _x_at	IU	2.014915e-03	217773 _s_at	IU	2.447827e-03
201717 _at	IU	2.014915e-03	205172 _x_at	IU	2.467569e-03
201068 _s_at	IU	2.014915e-03	200967 _at	IU	2.469066e-03
201597 _at	IU	2.014915e-03	219471 _at	IU	2.469888e-03
201569 _s_at	IU	2.014915e-03	221698 _s_at	IU	2.485932e-03
206978 _at	IU	2.029912e-03	220946 _s_at	IU	2.511406e-03
202263 _at	IU	2.066056e-03	205711 _x_at	IU	2.540653e-03
218142 _s_at	IU	2.083917e-03	208909 _at	IU	2.550568e-03
211571 _s_at	IU	2.089394e-03	218490 _s_at	IU	2.555249e-03
204369 _at	IU	2.09129e-03	200701 _at	IU	2.57309e-03
203153 _at	IU	2.098697e-03	218226 _s_at	IU	2.57606e-03
201070 _x_at	IU	2.098749e-03	221210 _s_at	IU	2.579897e-03
202878 _s_at	IU	2.109391e-03	201572 _x_at	IU	2.582347e-03
201392 _s_at	IU	2.113724e-03	202759 _s_at	IU	2.586529e-03
204981 _at	IU	2.115939e-03	201482 _at	IU	2.592746e-03
235019 _at	IU	2.118276e-03	207594 _s_at	IU	2.607313e-03
211725 _s_at	IU	2.152756e-03	64486 _at	IU	2.6181e-03
217956 _s_at	IU	2.171373e-03	219176 _at	IU	2.6181e-03
210792 _x_at	IU	2.173012e-03	218190 _s_at	IU	2.6181e-03
218606 _at	IU	2.211646e-03	217720 _at	IU	2.6181e-03
220019 _s_at	IU	2.211646e-03	218206 _x_at	IU	2.6181e-03
218831 _s_at	IU	2.211646e-03	218049 _s_at	IU	2.6181e-03
220066 _at	IU	2.211646e-03	218201 _at	IU	2.6181e-03
218773 _s_at	IU	2.211646e-03	218254 _s_at	IU	2.6181e-03
220078 _at	IU	2.211646e-03	203944 _x_at	IU	2.6181e-03
214501 _s_at	IU	2.211646e-03	212130 _x_at	IU	2.6181e-03
204466 _s_at	IU	2.211646e-03	211289 _x_at	IU	2.6181e-03
220760 _x_at	IU	2.211646e-03	210959 _s_at	IU	2.6181e-03
221060 _s_at	IU	2.211646e-03	211944 _at	IU	2.6181e-03
220940 _at	IU	2.211646e-03	210205 _at	IU	2.6181e-03
202902 _s_at	IU	2.211646e-03	202911 _at	IU	2.6181e-03
202096 _s_at	IU	2.211646e-03	202068 _s_at	IU	2.6181e-03
202381 _at	IU	2.211646e-03	205659 _at	IU	2.6181e-03
206059 _at	IU	2.211646e-03	209303 _at	IU	2.6181e-03
205147 _x_at	IU	2.211646e-03	209384 _at	IU	2.6181e-03
206488 _s_at	IU	2.211646e-03	208591 _s_at	IU	2.6181e-03
205599 _at	IU	2.211646e-03	201433 _s_at	IU	2.6181e-03
204924 _at	IU	2.211646e-03	201441 _at	IU	2.6181e-03
208702 _x_at	IU	2.211646e-03	201588 _at	IU	2.6181e-03
200709 _at	IU	2.211646e-03	201832 _s_at	IU	2.6181e-03
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205456 _at	IU	2.224534e-03	46323 _at	IU	2.625333e-03
204549 _at	IU	2.231742e-03	201408 _at	IU	2.661255e-03
41329 _at	IU	2.235555e-03	217853 _at	IU	2.719581e-03
31807 _at	IU	2.255062e-03	209222 _s_at	IU	2.752018e-03
218003 _s_at	IU	2.274912e-03	204593 _s_at	IU	2.754584e-03
212181 _s_at	IU	2.293464e-03	213019 _at	IU	2.79943e-03
208887 _at	IU	2.304328e-03	221486 _at	IU	2.850447e-03
217942 _at	IU	2.313579e-03	208907 _s_at	IU	2.868834e-03
203484 _at	IU	2.316795e-03	220990 _s_at	IU	2.869999e-03
200654 _at	IU	2.328709e-03	209662 _at	IU	2.892292e-03
201416 _at	IU	2.35329e-03	211270 _x_at	IU	2.895513e-03
206765 _at	IU	2.353848e-03	202466 _at	IU	2.897922e-03
202613 _at	IU	2.359758e-03	217962 _at	IU	2.905592e-03
206637 _at	IU	2.38052e-03	217866 _at	IU	2.906017e-03
200085 _s_at	IU	2.38536e-03	212208 _at	IU	2.924398e-03
210759 _s_at	IU	2.391035e-03	205194 _at	IU	2.9322e-03
226889 _at	IU	2.391728e-03	215260 _s_at	IU	2.94912e-03
218404 _at	IU	2.397258e-03	212602 _at	IU	2.966752e-03
202024 _at	IU	2.400996e-03	218361 _at	IU	2.984922e-03
208644 _at	IU	2.419418e-03	219979 _s_at	IU	3.004735e-03
212836 _at	IU	2.428044e-03	203504 _s_at	IU	3.022566e-03
202494 _at	IU	2.436019e-03	207127 _s_at	IU	3.024551e-03

Probe	Type	Value
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200789_at	IU	3.077059e-03
200958_s_at	IU	3.081887e-03
201193_at	IU	3.081956e-03
209186_at	IU	3.09683e-03
220741_s_at	IU	3.108383e-03
224599_at	IU	3.113216e-03
212587_s_at	IU	3.119421e-03
203329_at	IU	3.128505e-03
217974_at	IU	3.139364e-03
201322_at	IU	3.146199e-03
212581_x_at	IU	3.146826e-03
219443_at	IU	3.149031e-03
213353_at	IU	3.157164e-03
200782_at	IU	3.168761e-03
200991_s_at	IU	3.170553e-03
219006_at	IU	3.173393e-03
221891_x_at	IU	3.186426e-03
202802_at	IU	3.186542e-03
219449_s_at	IU	3.187372e-03
217973_at	IU	3.201813e-03
227442_at	IU	3.20603e-03
201590_x_at	IU	3.222008e-03
220005_at	IU	3.235011e-03
208638_at	IU	3.236866e-03
218385_at	IU	3.243383e-03
219788_at	IU	3.250825e-03
218337_at	IU	3.250825e-03
203337_x_at	IU	3.250825e-03
204099_at	IU	3.250825e-03
204647_at	IU	3.250825e-03
211100_x_at	IU	3.250825e-03
211495_x_at	IU	3.250825e-03
209500_x_at	IU	3.250825e-03
210314_x_at	IU	3.250825e-03
203184_at	IU	3.250825e-03
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203185_at	IU	3.250825e-03
202934_at	IU	3.250825e-03
206420_at	IU	3.250825e-03
205976_at	IU	3.250825e-03
205076_s_at	IU	3.250825e-03
209276_s_at	IU	3.250825e-03
209004_s_at	IU	3.250825e-03
201200_at	IU	3.250825e-03
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201940_at	IU	3.250825e-03
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203199_s_at	IU	3.333369e-03
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205668_at	IU	3.340264e-03
53071_s_at	IU	3.368092e-03
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212740_at	IU	3.368092e-03
212521_s_at	IU	3.368092e-03
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216902_s_at	IU	3.368092e-03
216483_s_at	IU	3.368092e-03
204634_at	IU	3.368092e-03
204063_s_at	IU	3.368092e-03
221495_s_at	IU	3.368092e-03
212085_at	IU	3.368092e-03
201628_s_at	IU	3.368092e-03
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209233_at	IU	3.368822e-03
210371_s_at	IU	3.373734e-03
202475_at	IU	3.374878e-03
201797_s_at	IU	3.382258e-03
210128_s_at	IU	3.390651e-03
202542_s_at	IU	3.394051e-03
213971_s_at	IU	3.409178e-03
211368_s_at	IU	3.412187e-03
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213735_s_at	IU	3.420671e-03
201739_at	IU	3.431494e-03
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201576_s_at	IU	3.462354e-03
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220948_s_at	IU	3.505089e-03
208985_s_at	IU	3.509607e-03
218383_at	IU	3.551408e-03
200758_s_at	IU	3.570551e-03
214259_s_at	IU	3.571851e-03
AFFX-HUMGAPDH/ M33197	IU	3.576582e-03
225128_at	IU	3.588394e-03
215051_x_at	IU	3.592289e-03
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205686_s_at	IU	3.645582e-03
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218357_s_at	IU	3.656859e-03
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210943_s_at	IU	3.692709e-03
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207622_s_at	IU	3.697414e-03
221247_s_at	IU	3.698834e-03
218290_at	IU	3.702252e-03
220864_s_at	IU	3.704754e-03
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201955_at	IU	3.765993e-03
208799_at	IU	3.772857e-03
217945_at	IU	3.780392e-03
204190_at	IU	3.781656e-03
221695_s_at	IU	3.782383e-03
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202747_s_at	IU	3.785496e-03
206761_at	IU	3.78744e-03
220187_at	IU	3.819191e-03
221555_x_at	IU	3.844445e-03
201379_s_at	IU	3.845693e-03
210463_x_at	IU	3.852742e-03
217791_s_at	IU	3.871816e-03
218667_at	IU	3.891516e-03
201828_x_at	IU	3.893102e-03

209043_at	IU	3.897307e-03
209018_s_at	IU	3.901928e-03
214011_s_at	IU	3.906253e-03
202622_s_at	IU	3.906253e-03
202408_s_at	IU	3.929112e-03
221263_s_at	IU	3.966252e-03
200829_x_at	IU	3.972126e-03
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219238_at	IU	3.979308e-03
204174_at	IU	3.987827e-03
201284_s_at	IU	3.988744e-03
203606_at	IU	4.020295e-03
217768_at	IU	4.030408e-03
204119_s_at	IU	4.03912e-03
203005_at	IU	4.06022e-03
213039_at	IU	4.064819e-03
200983_x_at	IU	4.077217e-03
205324_s_at	IU	4.082958e-03
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209761_s_at	IU	4.127328e-03
209882_at	IU	4.12945e-03
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200700_s_at	IU	4.177642e-03
221688_s_at	IU	4.177682e-03
233167_at	IU	4.178591e-03
217907_at	IU	4.200151e-03
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201931_at	IU	4.244574e-03
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238692_at	IU	4.275073e-03
216032_s_at	IU	4.289202e-03
218802_at	IU	4.292236e-03
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218025_s_at	IU	4.292236e-03
204331_s_at	IU	4.292236e-03
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211746_x_at	IU	4.292236e-03
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208841_s_at	IU	4.292236e-03
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201111_at	IU	4.292236e-03
205180_s_at	IU	4.296027e-03
200968_s_at	IU	4.305482e-03
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213570_at	IU	4.342682e-03
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220147_s_at	IU	4.593416e-03
218447_at	IU	4.595753e-03
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218896_s_at	IU	4.65621e-03
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204396_s_at	IU	4.666925e-03
204112_s_at	IU	4.666925e-03
221508_at	IU	4.666925e-03
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212188_at	IU	4.666925e-03
211676_s_at	IU	4.666925e-03
210059_s_at	IU	4.666925e-03
209604_s_at	IU	4.666925e-03
202155_s_at	IU	4.666925e-03
202100_at	IU	4.666925e-03
202943_s_at	IU	4.666925e-03
209166_s_at	IU	4.666925e-03
200785_s_at	IU	4.666925e-03
200839_s_at	IU	4.666925e-03
200765_x_at	IU	4.666925e-03
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212663_at	IU	4.722938e-03
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AFFX-HUMGAPDH/ M33197	IU	4.7788e-03
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202439_s_at	IU	4.949712e-03
218283_at	IU	4.949822e-03
209452_s_at	IU	4.950147e-03
207507_s_at	IU	4.95602e-03
211097_s_at	IU	4.995906e-03

203200_s_at	IU	5.0123e-b3	202217_at	IU	5.501292e-03
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210734_x_at	IU	5.040105e-03	211316_x_at	IU	5.563762e-03
200695_at	IU	5.062566e-03	228660_x_at	IU	5.580446e-03
201164_s_at	IU	5.070556e-03	214322_at	IU	5.581269e-03
209571_at	IU	5.086613e-03	201503_at	IU	5.58778e-03
207375_s_at	IU	5.086958e-03	201947_s_at	IU	5.5916e-03
203534_at	IU	5.096504e-03	201726_at	IU	5.604384e-03
220712_at	IU	5.098657e-03	209058_at	IU	5.620182e-03
219892_at	IU	5.115357e-03	214766_s_at	IU	5.641515e-03
221519_at	IU	5.125078e-03	219183_s_at	IU	5.648318e-03
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35974_at	IU	5.164236e-03	207688_s_at	IU	5.677618e-03
200843_s_at	IU	5.165091e-03	212397_at	IU	5.696699e-03
222125_s_at	IU	5.172436e-03	211748_x_at	IU	5.719603e-03
203667_at	IU	5.174761e-03	200696_s_at	IU	5.726655e-03
218974_at	IU	5.177525e-03	204527_at	IU	5.74469e-03
217870_s_at	IU	5.181955e-03	202786_at	IU	5.771052e-03
218140_x_at	IU	5.185678e-03	202534_x_at	IU	5.794268e-03
209059_s_at	IU	5.218012e-03	235054_at	IU	5.807981e-03
224971_at	IU	5.219784e-03	208822_s_at	IU	5.822147e-03
211275_s_at	IU	5.226676e-03	227786_at	IU	5.838801e-03
218057_x_at	IU	5.237731e-03	219799_s_at	IU	5.863384e-03
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208862_s_at	IU	5.311666e-03	221437_s_at	IU	5.926612e-03
202020_s_at	IU	5.31914e-03	206608_s_at	IU	5.973461e-03
202844_s_at	IU	5.355527e-03	204748_at	IU	6.008283e-03
208870_x_at	IU	5.357324e-03	210904_s_at	IU	6.017274e-03
204675_at	IU	5.3579e-03	217988_at	IU	6.028619e-03
219394_at	IU	5.380959e-03	235189_at	IU	6.043642e-03
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218566_s_at	IU	5.41688e-03	203709_at	IU	6.087523e-03
204019_s_at	IU	5.420484e-03	212633_at	IU	6.091758e-03
43544_at	IU	5.421248e-03	213418_at	IU	6.103242e-03
219343_at	IU	5.421248e-03	207525_s_at	IU	6.113532e-03
214512_s_at	IU	5.421248e-03	211004_s_at	IU	6.136753e-03
213318_s_at	IU	5.421248e-03	218515_at	IU	6.148687e-03
218314_s_at	IU	5.421248e-03	206861_s_at	IU	6.156489e-03
217927_at	IU	5.421248e-03	209538_at	IU	6.157715e-03
217932_at	IU	5.421248e-03	225374_at	IU	6.168768e-03
217862_at	IU	5.421248e-03	205644_s_at	IU	6.183837e-03
218007_s_at	IU	5.421248e-03	52940_at	IU	6.202727e-03
221483_s_at	IU	5.421248e-03	210006_at	IU	6.213617e-03
209569_x_at	IU	5.421248e-03	213572_s_at	IU	6.222276e-03
210312_s_at	IU	5.421248e-03	217526_at	IU	6.260802e-03
211575_s_at	IU	5.421248e-03	201304_at	IU	6.26635e-03
202941_at	IU	5.421248e-03	218557_at	IU	6.268297e-03
205202_at	IU	5.421248e-03	201765_s_at	IU	6.294613e-03
205992_s_at	IU	5.421248e-03	225283_at	IU	6.300627e-03
209380_s_at	IU	5.421248e-03	212332_at	IU	6.300909e-03
208002_s_at	IU	5.421248e-03	202153_s_at	IU	6.319167e-03
209077_at	IU	5.421248e-03	243529_at	IU	6.347043e-03
200743_s_at	IU	5.421248e-03	201037_at	IU	6.360929e-03
201436_at	IU	5.421248e-03	212331_at	IU	6.370024e-03
200974_at	IU	5.421248e-03	217872_at	IU	6.378686e-03
200990_at	IU	5.421248e-03	210225_x_at	IU	6.397385e-03
200925_at	IU	5.421248e-03	208095_s_at	IU	6.398656e-03
44111_at	IU	5.44245e-03	206183_s_at	IU	6.399509e-03
205296_at	IU	5.475607e-03	205452_at	IU	6.419865e-03
200826_at	IU	5.501265e-03	212807_s_at	IU	6.429444e-03

209226_s_at	1U	6.439329e-03	217144_at	IU	6.789341e-03
201274_at	1U	6.46914e-03	204702_s_at	IU	6.789341e-03
210023_s_at	1U	6.472904e-03	204405_x_at	IU	6.789341e-03
201736_s_at	1U	6.478215e-03	203568_s_at	IU	6.789341e-03
202345_s_at	1U	6.486906e-03	221522_at	IU	6.789341e-03
207223_s_at	1U	6.493633e-03	211779_x_at	IU	6.789341e-03
208740_at	1U	6.516029e-03	203205_at	IU	6.789341e-03
207040_s_at	1U	6.520572e-03	202397_at	IU	6.789341e-03
214855_s_at	1U	6.52124e-03	203252_at	IU	6.789341e-03
209696_at	1U	6.521642e-03	202591_s_at	IU	6.789341e-03
205926_at	1U	6.526542e-03	202783_at	IU	6.789341e-03
211404_s_at	1U	6.528198e-03	202657_s_at	IU	6.789341e-03
204554_at	1U	6.532344e-03	207347_at	IU	6.789341e-03
220081_x_at	1U	6.557745e-03	205273_s_at	IU	6.789341e-03
220122_at	1U	6.557745e-03	209194_at	IU	6.789341e-03
219947_at	1U	6.557745e-03	208120_x_at	IU	6.789341e-03
219095_at	1U	6.557745e-03	208802_at	IU	6.789341e-03
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213677_s_at	1U	6.557745e-03	200740_s_at	IU	6.789341e-03
213716_s_at	1U	6.557745e-03	200086_s_at	IU	6.789341e-03
212513_s_at	1U	6.557745e-03	201301_s_at	IU	6.789341e-03
216950_s_at	1U	6.557745e-03	201137_s_at	IU	6.789341e-03
218189_s_at	1U	6.557745e-03	201226_at	IU	6.789341e-03
218471_s_at	1U	6.557745e-03	203663_s_at	IU	6.820241e-03
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221498_at	1U	6.557745e-03	213607_x_at	IU	6.979988e-03
203249_at	1U	6.557745e-03	218951_s_at	IU	6.983284e-03
203118_at	1U	6.557745e-03	213083_at	IU	6.98636e-03
202364_at	1U	6.557745e-03	218646_at	IU	6.986923e-03
202359_s_at	1U	6.557745e-03	219403_s_at	IU	7.001815e-03
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206966_s_at	1U	6.557745e-03	225091_at	IU	7.025986e-03
207168_s_at	1U	6.557745e-03	207492_at	IU	7.042896e-03
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207765_s_at	1U	6.557745e-03	208756_at	IU	7.065321e-03
209943_at	IU	6.566086e-03	219526_at	IU	7.111395e-03
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205590_at	IU	6.608204e-03	214291_at	IU	7.164825e-03
208024_s_at	IU	6.612196e-03	204559_s_at	IU	7.16487e-03
211998_at	IU	6.629566e-03	218104_at	IU	7.19481e-03
212333_at	IU	6.649972e-03	208734_x_at	IU	7.205863e-03
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203978_at	IU	6.667076e-03	217809_at	IU	7.265829e-03
212656_at	IU	6.669408e-03	200840_at	IU	7.282689e-03
218321_x_at	IU	6.669408e-03	200068_s_at	IU	7.296982e-03
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214119_s_at	IU	6.679e-03	213958_at	IU	7.308663e-03
200824_at	IU	6.682899e-03	208688_x_at	IU	7.317561e-03
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212383_at	IU	6.728846e-03	213047_x_at	IU	7.374904e-03
202624_s_at	IU	6.763834e-03	208637_x_at	IU	7.411342e-03
202025_x_at	IU	6.782085e-03	206748_s_at	IU	7.417291e-03
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209143_s_at	IU	6.788518e-03	218563_at	IU	7.514914e-03
57715_at	IU	6.789341e-03	205060_at	IU	7.526639e-03
219118_at	IU	6.789341e-03	219598_s_at	IU	7.530712e-03
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234403_at	IU	7.72517e-03
221087_s_at	IU	7.725369e-03
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202324_s_at	IU	7.818531e-03
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202741_at	IU	7.869604e-03
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213687_s_at	IU	0.01	210996 "_s_at	IU	0.01
219599_at	IU	0.01	212159 _x_at	IU	0.01
223179_at	IU	0.01	202557 "at	IU	0.01
221666_s_at	IU	0.01	202754 " at	IU	0.01
201589_at	IU	0.01	205094 ""at	IU	0.01
202209_at	IU	0.01	209218 "_at	IU	0.01
218877_s_at	IU	0.01	209366 _x_at	IU	0.01
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219399_at	IU	0.01	200613 ""at	IU	0.01
219812_at	IU	0.01	209492 "_x_at	IU	0.01
220342_x_at	IU	0.01	219198 ""at	IU	0.01
219045__at	IU	0.01	217940 "_s_at	IU	0.01
220048_at	IU	0.01	218175 _at	IU	0.01
214339_s_at	IU	0.01	204610 _s_at	IU	0.01
214163_at	IU	0.01	210038 "at	IU	0.01
203377_s_at	IU	0.01	206035 "at	IU	0.01
204275_at	IU	0.01	208723 "_at	IU	0.01
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202605_at	IU	0.01	212303 "_x_at	IU	0.01
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226071_at	IU	0.01	209136 _s_at	IU	0.01
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213175__s_at	IU	0.01	218309 "a t	IU	0.01
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2177 69_s_at	IU	0.01	203888 "at	IU	0.01
215148 _s_at	IU	0.01	207979 _s_at	IU	0.01

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201996	_s_at	IU	0.01	218239	_s_at	IU	0.02
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				213475_s_at	IU	0.02

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221985	_at	IU	0.02	218729	_at	IU	0.02
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202057	_at	IU	0.02	208753	s_at	IU	0.02
203855	at	IU	0.02	200980	s_at	IU	0.02
200945	s_at	IU	0.02	213043	s_at	IU	0.02
201013	at	IU	0.02	218599	at	IU	0.02
212264	s_at	IU	0.02	219472	at	IU	0.02
205763	s_at	IU	0.02	219485	s_at	IU	0.02
201698	s_at	IU	0.02	218734	at	IU	0.02
200731	s_at	IU	0.02	218533	s_at	IU	0.02
201742	x_at	IU	0.02	212916	at	IU	0.02
203551	s_at	IU	0.02	212737	at	IU	0.02
201812	s_at	IU	0.02	218072	at	IU	0.02
216903	s_at	IU	0.02	217388	s_at	IU	0.02
214672	at	IU	0.02	204480	s_at	IU	0.02
202333	s_at	IU	0.02	203974	_at	IU	0.02
217800	s_at	IU	0.02	203538	_at	IU	0.02

204640 _s_at	IU	0.02		214500 _at	IU	0.02
204224 _s_at	IU	0.02		212616 _at	IU	0.02
204715 _at	IU	0.02		214084 _x_at	IU	0.02
203879 _at	IU	0.02		217827 _s_at	IU	0.02
222217 _s_at	IU	0.02		217882 _at	IU	0.02
209510 _at	IU	0.02		217931 _at	IU	0.02
209579 _s_at	IU	0.02		218268 _at	IU	0.02
202556 _s_at	IU	0.02		218370 _s_at	IU	0.02
202087 _s_at	IU	0.02		204566 _at	IU	0.02
202680 _at	IU	0.02		204565 _at	IU	0.02
206845 _s_at	IU	0.02		203923 _s_at	IU	0.02
206553 _at	IU	0.02		203856 _at	IU	0.02
209375 _at	IU	0.02		204207 _s_at	IU	0.02
208857 _s_at	IU	0.02		220784 _s_at	IU	0.02
201446 _s_at	IU	0.02		221012 _s_at	IU	0.02
201202 _at	IU	0.02		210981 _s_at	IU	0.02
201019 _s_at	IU	0.02		209512 _at	IU	0.02
201938 _at	IU	0.02		202708 _s_at	IU	0.02
201106 _at	IU	0.02		202377 _at	IU	0.02
217106 _x_at	IU	0.02		202978 _s_at	IU	0.02
201619 _at	IU	0.02		203169 _at	IU	0.02
207610 _s_at	IU	0.02		202869 _at	IU	0.02
206965 _at	IU	0.02		203236 _s_at	IU	0.02
202246 _s_at	IU	0.02		202492 _at	IU	0.02
204391 _x_at	IU	0.02		206682 _at	IU	0.02
39248 _at	IU	0.02		205639 _at	IU	0.02
217937 _s_at	IU	0.02		204961 _s_at	IU	0.02
218285 _s_at	IU	0.02		205936 _s__at	IU	0.02
204151 _x_at	IU	0.02		209201 _x_at	IU	0.02
204355 _at	IU	0.02		208855 _s_at	IU	0.02
220966 _x_at	IU	0.02		208785 _s_at	IU	0.02
206655 _s_at	IU	0.02		208780 _x_at	IU	0.02
201388 _at	IU	0.02		200811 _at	IU	0.02
208454 _s_at	IU	0.02		200950 _at	IU	0.02
209860 _s_at	IU	0.02		201651 _s_at	IU	0.02
212543 _at	IU	0.02		201432 _at	IU	0.02
204131 _s_at	IU	0.02		200882 _s_at	IU	0.02
211202 _s_at	IU	0.02		218250 _s_at	IU	0.02
205541 _s_at	IU	0.02		202582 _s_at	IU	0.02
209499 _x_at	IU	0.02		204735 _at	IU	0.02
221622 _s_at	IU	0.02		225612 _s_at	IU	0.02
219193 _at	IU	0.02		202854 _at	IU	0.02
201343 _at	IU	0.02		218555 _at	IU	0.02
212885 _at	IU	0.02		210449 _x_at	IU	0.02
218553 _s_at	IU	0.02		212101 _at	IU	0.02
219669 _at	IU	0.02		206267 _s_at	IU	0.02
202151 _s_at	IU	0.02		201633 _s_at	IU	0.02
207723 _s_at	IU	0.02		215127 _s_at	IU	0.02
200616 _s_at	IU	0.02		209734 _at	IU	0.02
211417 _x_at	IU	0.02		239835 _at	IU	0.02
221899 _at	IU	0.02		219133 _at	IU	0.02
203356 _at	IU	0.02		218875 _s_at	IU	0.02
217736 _s_at	IU	0.02		203405 _at	IU	0.02
219648 _at	IU	0.02		201097 _s_at	IU	0.02
213291 _s_at	IU	0.02		217812 _at	IU	0.02
218217 _at	IU	0.02		211969 _at	IU	0.02
211009 _s_at	IU	0.02		201575 _at	IU	0.02
212636 _at	IU	0.02		219862 _s_at	IU	0.02
212696 _s_at	IU	0.02		211733 _x_at	IU	0.02
218718 _at	IU	0.02		203275 _at	IU	0.02
218496 _at	IU	0.02		213954 _at	IU	0.02
219678 _x_at	IU	0.02		231579 _s_at	IU	0.02
212789 _at	IU	0.02		208438 _s_at	IU	0.02
				201298 _s_at	IU	0.02

2097 65 _atr	1U	0.02	205356 _at	IU	0.02
202797 _at	IU	0.02	203291_at	IU	0.02
202497 _x_at	IU	0.02	218571_s_at	IU	0.02
223115 _at	1U	0.02	208012_x_at	IU	0.02
218888 _s_at	IU	0.02	214427 _at	IU	0.02
211919 _s_at	IU	0.02	219567 _s_at	IU	0.02
219043 _s_at	IU	0.02	221864_at	IU	0.02
218615 _s_at	IU	0.02	205596_s_at	IU	0.02
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203466 _at	IU	0.02	207253_s_at	IU	0.02
220232 _at	IU	0.02	201258_at	IU	0.02
219762 _s_at	IU	0.02	202642_s_at	IU	0.02
219226 _at	IU	0.02	212008_at	IU	0.02
205715 _at	IU	0.02	200042_at	IU	0.02
207674 _at	IU	0.02	228176_at	IU	0.02
213009 _s_at	IU	0.02	202102_s_at	IU	0.02
38964 _r_at	IU	0.02	219190_s_at	IU	0.02
207559 _s_at	IU	0.02	201740_at	IU	0.02
211330 _s_at	IU	0.02	220248_x_at	IU	0.02
212320 _at	IU	0.02	219673_at	IU	0.02
214220 _s_at	IU	0.02	209003_at	IU	0.02
211271 _x_at	IU	0.02	201443_s_at	IU	0.02
211938 _at	IU	0.02	221193_s_at	IU	0.02
202523 _s_at	IU	0.02	204616_at	IU	0.02
215838 _at	IU	0.02	208676_s_at	IU	0.02
219435 _at	IU	0.02	202477_s_at	IU	0.03
211975 _at	IU	0.02	206431_x_at	IU	0.03
201692 _at	IU	0.02	209881_s_at	IU	0.03
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217967 _s_at	IU	0.02	220038_at	IU	0.03
200663 _at	IU	0.02	206724_at	IU	0.03
51228 _at	IU	0.02	219878_s_at	IU	0.03
220307 _at	IU	0.02	206167_s_at	IU	0.03
212520 _s_at	IU	0.02	208934_s_at	IU	0.03
212291 _at	IU	0.02	201182_s_at	IU	0.03
217216 _x_at	IU	0.02	200896_x_at	IU	0.03
203981 _s_at	IU	0.02	223502_s_at	IU	0.03
201085 _s_at	IU	0.02	211946_s_at	IU	0.03
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201669 _s_at	IU	0.02	206098_at	IU	0.03
202431 _s_at	IU	0.02	221763_at	IU	0.03
207831 _x_at	IU	0.02	231777_at	IU	0.03
201867 _s_at	IU	0.02	218184_at	IU	0.03
207573 _x_at	IU	0.02	208797_s_at	IU	0.03
203079 _s_at	IU	0.02	201634_s_at	IU	0.03
208089 _s_at	IU	0.02	217848_s_at	IU	0.03
212238 _at	IU	0.02	200705_s_at	IU	0.03
201780 _s_at	IU	0.02	225651_at	IU	0.03
224187 _x_at	IU	0.02	208289_s_at	IU	0.03
203480 _s_at	IU	0.02	215165_x_at	IU	0.03
213414 _s_at	IU	0.02	225524_at	IU	0.03
228355 _s_at	IU	0.02	63009_at	IU	0.03
235896 _s_at	IU	0.02	202185_at	IU	0.03
218905 _at	IU	0.02	221681_s_at	IU	0.03
207605 _x_at	IU	0.02	218902_at	IU	0.03
209382 _at	IU	0.02	203182_s_at	IU	0.03
200747 _s_at	IU	0.02	202630_at	IU	0.03
212955 _s_at	IU	0.02	212995_x_at	IU	0.03
212862 _at	IU	0.02	205548_s_at	IU	0.03
209780 _at	IU	0.02	65493_at	IU	0.03
225744 _at	IU	0.02	219534_x_at	IU	0.03
202499 _s_at	IU	0.02	214866_at	IU	0.03
204361 _s_at	IU	0.02	204547_at	IU	0.03
212570 _at	IU	0.02	221758_at	IU	0.03

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212220_at	IU	0.03	204669_s_at	IU	0.03
212063_at	IU	0.03	202720_at	IU	0.03
203264_s_at	IU	0.03	212988_x_at	IU	0.03
207122_x_at	IU	0.03	204385_at	IU	0.03
211984_at	IU	0.03	201593_s_at	IU	0.03
209798_at	IU	0.03	208094_s_at	IU	0.03
214688_at	IU	0.03	209667_at	IU	0.03
223236_at	IU	0.03	200094_s_at	IU	0.03
209057_x_at	IU	0.03	218354_at	IU	0.03
208369_s_at	IU	0.03	207513_s_at	IU	0.03
224 918_x_at	IU	0.03	203272_s_at	IU	0.03
202746_at	IU	0.03	200947_s_at	IU	0.03
203395_s_at	IU	0.03	201165_s_at	IU	0.03
220566_at	IU	0.03	201365_at	IU	0.03
220050_at	IU	0.03	203526_s_at	IU	0.03
208424_s_at	IU	0.03	218936_s_at	IU	0.03
203152_at	IU	0.03	209189_at	IU	0.03
205016_at	IU	0.03	202803_s_at	IU	0.03
219325_s_at	IU	0.03	210406_s_at	IU	0.03
200024_at	IU	0.03	224991_at	IU	0.03
207564_x_at	IU	0.03	217094_s_at	IU	0.03
211663_x_at	IU	0.03	222077_s_at	IU	0.03
200718_s_at	IU	0.03	203351_s_at	IU	0.03
206044_s_at	IU	0.03	226394_at	IU	0.03
225693_s_at	IU	0.03	204977_at	IU	0.03
226564_at	IU	0.03	200072_s_at	IU	0.03
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211952_at	IU	0.03	205036_at	IU	0.03
213080_x_at	IU	0.03	203428_s_at	IU	0.03
213018_at	IU	0.03	218078_s_at	IU	0.03
218545_at	IU	0.03	218146_at	IU	0.03
200007_at	IU	0.03	225390_s_at	IU	0.03
201637_s_at	IU	0.03	201507_at	IU	0.03
201377_at	IU	0.03	202710_at	IU	0.03
200693_at	IU	0.03	225434_at	IU	0.03
218680_x_at	IU	0.03	221430_s_at	IU	0.03
219392_x_at	IU	0.03	212231_at	IU	0.03
212774_at	IU	0.03	223440_at	IU	0.03
212655_at	IU	0.03	201134_x_at	IU	0.03
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203905_at	IU	0.03	202106_at	IU	0.03
220485_s_at	IU	0.03	208845_at	IU	0.03
212102_s_at	IU	0.03	212674_s_at	IU	0.03
202703_at	IU	0.03	207319_s_at	IU	0.03
203022_at	IU	0.03	207075_at	IU	0.03
203157_s_at	IU	0.03	219022_at	IU	0.03
202532_s_at	IU	0.03	222934_s_at	IU	0.03
208103_s_at	IU	0.03	225050_at	IU	0.03
208730__x_at	IU	0.03	202991_at	IU	0.03
201060_x_at	IU	0.03	213977_s_at	IU	0.03
201541_s_at	IU	0.03	202794_at	IU	0.03
221452_s_at	IU	0.03	200873_s_at	IU	0.03
32069_at	IU	0.03	220071_x_at	IU	0.03
218673_s_at	IU	0.03	208911_s_at	IU	0.03
212099_at	IU	0.03	207038_at	IU	0.03
205250_s_at	IU	0.03	4932 9_at	IU	0.03
205126_at	IU	0.03	218085_at	IU	0.03
219520_s_at	IU	0.03	204838_s_at	IU	0.03
203909_at	IU	0.03	206693_at	IU	0.03
219489_s__at	IU	0.03	202971_s_at	IU	0.03
212348_s_at	IU	0.03	200694_s_at	IU	0.03
212384_at	IU	0.03	200869_at	IU	0.03
210254_at	IU	0.03	212973_at	IU	0.03

203546_at	IU	0.03		212918_at	IU	0.03
205443_at	IU	0.03		214315_x_at	IU	0.03
236133_x_at	IU	0.03		212539_at	IU	0.03
227445_at	IU	0.03		212777_at	IU	0.03
218071_s_at	IU	0.03		212772_s_at	iu	0.03
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219528_s_at	IU	0.03		217987_at	IU	0.03
207460_at	IU	0.03		217906_at	IU	0.03
205934_at	IU	0.03		218143_s_at	IU	0.03
227157_at	IU	0.03		218041_x_at	IU	0.03
220035_at	IU	0.03		218263_s_at	IU	0.03
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202070_s_at	IU	0.03		218422_s_at	IU	0.03
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218478_s_at	IU	0.03		204698_at	IU	0.03
200051_at	IU	0.03		204081_at	IU	0.03
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210193_at	IU	0.03		220607_x_at	IU	0.03
209627_s_at	IU	0.03		221080_s_at	IU	0.03
201454_s_at	IU	0.03		221750_at	IU	0.03
221156_x_at	IU	0.03		220580_at	IU	0.03
205255_x_at	IU	0.03		220941_s_at	IU	0.03
205245_at	IU	0.03		222108_at	IU	0.03
91684_g_at	IU	0.03		221211_s_at	IU	0.03
204297_at	IU	0.03		209903_s_at	IU	0.03
204946_s_at	IU	0.03		212237_at	IU	0.03
213400_s_at	IU	0.03		209741_x_at	IU	0.03
209795_at	IU	0.03		212087_s_at	IU	0.03
218999_at	IU	0.03		210715_s_at	IU	0.03
211954_s_at	IU	0.03		209835_x_at	IU	0.03
214007_s_at	IU	0.03		210285_x_at	IU	0.03
202737_s_at	IU	0.03		209839_at	IU	0.03
201838_s_at	IU	0.03		211883_x_at	IU	0.03
204291_at	IU	0.03		210396_s_at	IU	0.03
216252_x_at	IU	0.03		212037_at	IU	0.03
211025_x_at	IU	0.03		209791_at	IU	0.03
220255_at	IU	0.03		210389_x_at	IU	0.03
214306_at	IU	0.03		202787_s_at	IU	0.03
47069_at	IU	0.03		202118_s_at	IU	0.03
51200_at	IU	0.03		205214_at	IU	0.03
74694_s_at	IU	0.03		205081_at	IU	0.03
219186_at	IU	0.03		206478_at	IU	0.03
219334_s_at	IU	0.03		207446_at	IU	0.03
219303_at	IU	0.03		205042_at	IU	0.03
218607_s_at	IU	0.03		205684_s_at	IU	0.03
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218518_at	IU	0.03		206493_at	IU	0.03
219802_at	IU	0.03		207435_s_at	IU	0.03
218517_at	IU	0.03		206492_at	IU	0.03
212538_at	IU	0.03		208997_s_at	IU	0.03
212720_at	IU	0.03		207856_s_at	IU	0.03
214974_x_at	IU	0.03		207665_at	IU	0.03
212869_x_at	IU	0.03		209379_s_at	IU	0.03
214246_x_at	IU	0.03		207724_s_at	IU	0.03
214455_at	IU	0.03		208619_at	IU	0.03
212514_x_at	IU	0.03		207651_at	IU	0.03
212692_s_at	IU	0.03		200060_s_at	IU	0.03

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200610_s_at	IU	0.03		208893 __s_at	IU	0.03
200058_s_at	IU	0.03		209005 _at	IU	0.03
200722_s_at	IU	0.03		201574 _at	IU	0.03
121_at	IU	0.03		201556 _s_at	IU	0.03
201092_at	IU	0.03		210912 _x_at	IU	0.03
201720_s_at	IU	0.03		200893 _at	IU	0.03
201858_s_at	IU	0.03		221652 _s_at	IU	0.03
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201545_s_at	IU	0.03		217966 _s_at	IU	0.03
201001_s_at	IU	0.03		208716 _s_at	IU	0.03
201888_s_at	IU	0.03		207598 _x_at	IU	0.03
201299_s_at	IU	0.03		227937 _at	IU	0.03
201458_s_at	IU	0.03		202165 _at	IU	0.03
200890_s_at	IU	0.03		223158 _s_at	IU	0.03
201565_s_at	IU	0.03		201216 _at	IU	0.03
200681_at	IU	0.03		207338 _s_at	IU	0.03
201714_at	IU	0.03		203364 _s_at	IU	0.03
225255_at	IU	0.03		215967 _s_at	IU	0.03
228949_at	IU	0.03		203277 _at	IU	0.03
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218846_at	IU	0.03		203711 _s_at	IU	0.03
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222133_s_at	IU	0.03		207234 _at	IU	0.03
217755_at	IU	0.03		206507 _at	IU	0.03
212453_at	IU	0.03		203247 _s_at	IU	0.03
55872_at	IU	0.03		210057 _at	IU	0.03
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212702_s_at	IU	0.03		220046 _s_at	IU	0.03
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214585_s_at	IU	0.03		214431 _at	IU	0.03
216274_s_at	IU	0.03		202868 _s_at	IU	0.03
216338_s_at	IU	0.03		223922 _x_at	IU	0.03
217781_s_at	IU	0.03		218911 _at	IU	0.03
217739_s_at	IU	0.03		210988 _s_at	IU	0.03
215100_at	IU	0.03		35671 _at	IU	0.03
217885_at	IU	0.03		219667 _s_at	IU	0.03
218004_at	IU	0.03		219757 _s_at	IU	0.03
216977_x_at	IU	0.03		213524 _s_at	IU	0.03
218021_at	IU	0.03		218100 _s_at	IU	0.03
218259_at	IU	0.03		218122 __s_at	IU	0.03
217418_x_at	IU	0.03		217888 _s_at	IU	0.03
218011_at	IU	0.03		203864 _s_at	IU	0.03
216060_s_at	IU	0.03		203742 _s_at	IU	0.03
218400_at	IU	0.03		221708 _s_at	IU	0.03
203613_s_at	IU	0.03		212004 __at	IU	0.03
203615_x_at	IU	0.03		209626 _s_at	IU	0.03
212194_s_at	IU	0.03		212139 __at	IU	0.03
211152_s_at	IU	0.03		205297 _s_at	IU	0.03
211940_x_at	IU	0.03		206782 _s_at	IU	0.03
209724_s_at	IU	0.03		206567 _s_at	IU	0.03
209970_x_at	IU	0.03		201511 _at	IU	0.03
202974_at	IU	0.03		201748 _s_at	IU	0.03
202379_s_at	IU	0.03		203042 __at	IU	0.03
202192_s_at	IU	0.03		205353 _s_at	IU	0.03
202086_at	IU	0.03		208804 _s_at	IU	0.03
202084_s_at	IU	0.03		213708 _s_at	IU	0.03
202558_s_at	IU	0.03		218394 _at	IU	0.03
202761_s_at	IU	0.03		210081 _at	IU	0.03
204908_s_at	IU	0.03		203039 _s_at	IU	0.03
205786_s_at	IU	0.03		215832 _x_at	IU	0.03

216262_s_at	IU	0.03		202807_s_at	IU	0.03
210424_s_at	IU	0.03		204968_at	IU	0.03
201358_s_at	IU	0.03		210028_s_at	IU	0.03
202122_s_at	IU	0.03		209984_at	IU	0.03
218633_x_at	IU	0.03		202041_s_at	IU	0.03
212388_at	IU	0.03		202176_at	IU	0.03
218472_s_at	IU	0.03		209928_s_at	IU	0.03
214835_s_at	IU	0.03		203064_s_at	IU	0.03
223150_s_at	IU	0.03		222311_s_at	IU	0.03
202666_s_at	IU	0.03		200002_at	IU	0.03
203448_s_at	IU	0.03		202536_at	IU	0.03
200655_s_at	IU	0.03		204638_at	IU	0.03
212286_at	IU	0.03		217826_s_at	IU	0.03
201526_at	IU	0.03		212689_s_at	IU	0.03
201382_at	IU	0.03		217356_s_at	IU	0.03
218949_s_at	IU	0.03		209188_x_at	IU	0.03
223376_s_at	IU	0.03		209203_s_at	IU	0.03
230026_at	IU	0.03		200797_s_at	IU	0.03
220032_at	IU	0.03		201464_x_at	IU	0.03
212168_at	IU	0.03		222489_s_at	IU	0.03
212647_at	IU	0.03		203278_s_at	IU	0.03
204453_at	IU	0.03		200858_s_at	IU	0.03
222708_s_at	IU	0.03		203044_at	IU	0.03
202566_s_at	IU	0.03		217750_s_at	IU	0.03
203602_s_at	IU	0.03		214525_x_at	IU	0.03
219849_at	IU	0.03		215236_s_at	IU	0.03
219868_s_at	IU	0.03		206049_at	IU	0.03
217957_at	IU	0.03		205212_s_at	IU	0.03
205672_at	IU	0.03		205718_at	IU	0.03
202223_at	IU	0.03		203659_s_at	IU	0.03
212785_s_at	IU	0.03		202371_at	IU	0.03
213515_x_at	IU	0.03		209438_at	IU	0.03
218288_s_at	IU	0.03		204401_at	IU	0.03
216547_at	IU	0.03		208880_s_at	IU	0.03
215313_x_at	IU	0.03		225641_at	IU	0.03
204097_s_at	IU	0.03		218602_s_at	IU	0.03
203311_s_at	IU	0.03		218993_at	IU	0.03
204283_at	IU	0.03		238462_at	IU	0.03
212227_x_at	IU	0.03		212750_at	IU	0.03
211061_s_at	IU	0.03		210117_at	IU	0.03
211537_x_at	IU	0.03		205116_at	IU	0.03
209628_at	IU	0.03		205362_s_at	IU	0.03
202249_s_at	iu	0.03		203860_at	IU	0.03
205269_at	IU	0.03		214170_x_at	IU	0.03
209192_x_at	IU	0.03		218253_s_at	IU	0.03
208149_x_at	IU	0.03		200670_at	IU	0.03
209155_s_at	IU	0.03		210004_at	IU	0.03
208649_s_at	IU	0.03		219541_at	IU	0.03
200651_at	IU	0.03		213843_x_at	IU	0.03
200845_s_at	IU	0.03		220905_at	IU	0.03
200828_s_at	IU	0.03		207554_x_at	IU	0.03
201339_s_at	IU	0.03		218150_at	IU	0.03
201928_at	IU	0.03		210775_x_at	IU	0.03
201956_s_at	IU	0.03		211063_s_at	IU	0.03
202923_s_at	IU	0.03		202602_s_at	IU	0.03
218527_at	IU	0.03		218997_at	IU	0.03
214606_at	IU	0.03		217726_at	IU	0.03
211501_s_at	IU	0.03		202074_s_at	IU	0.03
218476_at	IU	0.03		218340_s_at	IU	0.03
202060_at	IU	0.03		208598_s_at	IU	0.03
201225_s_at	IU	0.03		202874_s_at	IU	0.03
213995_at	IU	0.03		218487_at	IU	0.03
204847_at	IU	0.03		202167_s_at	IU	0.03
204274_at	IU	0.03		217738_at	IU	0.03

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219972 _s_at	IU	TO 3		203476 _at	IU	0.04
201873 _s_at	IU	0.03		201608 _s_at	IU	0.04
204614 _at	IU	0.03		217941 _s_at	IU	0.04
201237 _at	IU	0.03		212953 _x_at	IU	0.04
211583 _x_at	IU	0.03		217491 _x_at	IU	0.04
219917 _at	IU	0.03		211339 _s_at	IU	0.04
221649 _s_at	IU	0.03		212502 _at	IU	0.04
201594 _s_at	IU	0.03		202116 _at	IU	0.04
221803 _s_at	IU	0.03		38671 _at	IU	0.04
35201 _at	IU	0.03		203203 _s_at	IU	0.04
222229 _x_at	IU	0.03		218307 _at	IU	0.04
203935 _at	IU	0.03		32811 _at	IU	0.04
201227 _s_at	IU	0.03		203046 _s_at	IU	0.04
219097 _x_at	IU	0.03		224374 _s_at	IU	0.04
202266 _at	IU	0.03		219698 _s_at	IU	0.04
212594 _at	IU	0.03		217759 _at	IU	0.04
201027 _s_at	IU	0.03		238010 _at	IU	0.04
202009 _at	IU	0.03		50221 _at	IU	0.04
212533 _at	IU	0.03		204804 _at	IU	0.04
218191 _s_at	IU	0.03		203202 _at	IU	0.04
224196 _x_at	IU	0.03		220330 _s_at	IU	0.04
209175 _at	IU	0.03		207596 _at	IU	0.04
205308 _at	IU	0.03		211678 _s_at	IU	0.04
219854 _at	IU	0.03		203701 _s_at	IU	0.04
212742 _at	IU	0.03		212487 _at	IU	0.04
231736 _x_at	IU	0.03		217744 _s_at	IU	0.04
201606 _s_at	IU	0.03		206571 _s_at	IU	0.04
214224 _s_at	IU	0.03		228234 _at	IU	0.04
221514 _at	IU	0.03		201154 _x_at	IU	0.04
205603 _s_at	IU	0.03		206918 _s_at	IU	0.04
212610 _at	IU	0.03		224622 _at	IU	0.04
217499 _x_at	IU	0.04		220643 __s_at	IU	0.04
204352 _at	IU	0.04		208703 _s_at	IU	0.04
204184 _s_at	IU	0.04		219895 _at	IU	0.04
222115 _x_at	IU	0.04		203060 _s_at	IU	0.04
207351 _s_at	IU	0.04		212877 _at	IU	0.04
208452 _x_at	IU	0.04		212958 _x_at	IU	0.04
201050 _at	IU	0.04		217983 _s_at	IU	0.04
220999 _s_at	IU	0.04		202739 _s_at	IU	0.04
212773 _s_at	IU	0.04		200057 _s_at	IU	0.04
202032 _s_at	IU	0.04		219386 _s_at	IU	0.04
201041 _s_at	IU	0.04		204021 _s_at	IU	0.04
200082 _s_at	IU	0.04		201189 _s_at	IU	0.04
203648 _at	IU	0.04		209421 _at	IU	0.04
200842 _s_at	IU	0.04		201600 _at	IU	0.04
211911 _x_at	IU	0.04		201925 _s_at	IU	0.04
212457 _at	IU	0.04		223674 _s_at	IU	0.04
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201854 _s_at	IU	0.04		32091 _at	IU	0.04
222757 _s_at	IU	0.04		207041 _at	IU	0.04
207549 _x_at	IU	0.04		55065 _at	IU	0.04
227598 _at	IU	0.04		210097 _s_at	IU	0.04
210195 _s_at	IU	0.04		220969 _s_at	IU	0.04
219122 _s_at	IU	0.04		222064 _s_at	IU	0.04
212660 _at	IU	0.04		201876 _at	IU	0.04
201459 _at	IU	0.04		201112 _s_at	IU	0.04
202114 _at	IU	0.04		211955 _at	IU	0.04
218628 _at	IU	0.04		229054 _at	IU	0.04
203692 _s_at	IU	0.04		211084 _x_at	IU	0.04
215719 _x_at	IU	0.04		218128 _at	IU	0.04
202113 _s_at	IU	0.04		200013 _at	IU	0.04
219165 _at	IU	0.04		221839 _s_at	IU	0.04
203434 _s_at	IU	0.04		201471 _s_at	IU	0.04
213062 _at	IU	0.04		224651 _at	IU	0.04

205005_s_at	fo	0ToT		203033_x_at	IU	0.04
200734_s_at	IU	0.04		202722_s_at	IU	0.04
209310_s_at	1Ü	0.04		202883_s_at	IU	0.04
207556_s_at	10	0.04		206061_s_at	IU	0.04
223043_at	IU	0.04		204972_at	IU	0.04
223402_at	IU	0.04		208325_s_at	IU	0.04
221190_s_at	IU	0.04		208669_s_at	IU	0.04
219941_at	IU	0.04		200689_x_at	IU	0.04
203793_x_at	IU	0.04		201735_s_at	IU	0.04
204383_at	IU	0.04		200932_s_at	IU	0.04
205511_at	IU	0.04		201807_at	IU	0.04
206132_at	IU	0.04		223915_at	IU	0.04
207509_s_at	IU	0.04		213446_s_at	IU	0.04
215726_s_at	IU	0.04		201087_at	IU	0.04
203655_at	IU	0.04		207408_at	IU	0.04
204652_s_at	IU	0.04		218685_s_at	IU	0.04
205260_s_at	IU	0.04		201953_at	IU	0.04
221925_s_at	IU	0.04		217933_s_at	IU	0.04
212718_at	IU	0.04		213501_at	IU	0.04
204072_s_at	IU	0.04		213160_at	IU	0.04
208114_s_at	IU	0.04		201798_s_at	IU	0.04
202713_s_at	IU	0.04		223216_x_at	IU	0.04
203457_at	IU	0.04		201778_s_at	IU	0.04
205078_at	IU	0.04		218539_at	IU	0.04
218552_at	IU	0.04		215990_s_at	IU	0.04
203970_s_at	IU	0.04		206445_s_at	IU	0.04
211687_x_at	IU	0.04		212496_s_at	IU	0.04
200738_s_at	IU	0.04		218989_x_at	IU	0.04
203297_s_at	IU	0.04		202516_s_at	IU	0.04
220832_at	IU	0.04		238757_at	IU	0.04
202144]_s_at	IU	0.04		203583_at	IU	0.04
212214_at	IU	0.04		45526_g_at	IU	0.04
202314_at	IU	0.04		60528_at	IU	0.04
207936_x_at	IU	0.04		219092_s_at	IU	0.04
212899_a¥	IU	0.04		220467_at	IU	0.04
218532_s_at	IU	0.04		220052_s_at	IU	0.04
213581_at	IU	0.04		219481_at	IU	0.04
209357_at	IU	0.04		213460_x_at	IU	0.04
214470_at	IU	0.04		217905_at	IU	0.04
211987_at	IU	0.04		204265_s_at	IU	0.04
211370_s_at	IU	0.04		203665_at	IU	0.04
206931_at	IU	0.04		203566_s_at	IU	0.04
207387_s_at	IU	0.04		204716_at	IU	0.04
202158_s_at	IU	0.04		204439_at	IU	0.04
218127_at	IU	0.04		203552_at	IU	0.04
209019_s_at	IU	0.04		204747_at	IU	0.04
209274_s_at	IU	0.04		221478_at	IU	0.04
202875_s_at	IU	0.04		210555_s_at	IU	0.04
217576_x_at	IU	0.04		212041_at	IU	0.04
217719_at	IU	0.04		210742_at	IU	0.04
202325_s_at	IU	0.04		212066_s_at	IU	0.04
211561_x_at	IU	0.04		202427_s_at	IU	0.04
218626_at	IU	0.04		202206_at	IU	0.04
219104_at	IU	0.04		205583_s_at	IU	0.04
219292_at	IU	0.04		205383_s_at	IU	0.04
212905_at	IU	0.04		206956_at	IU	0.04
212322_at	IU	0.04		209001_s_at	IU	0.04
217978_s_at	IU	0.04		208610_s_at	IU	0.04
218267_at	IU	0.04		200686_s_at	IU	0.04
218073_s_at	IU	0.04		201096_s_at	IU	0.04
218181_s_at	IU	0.04		201943_s_at	IU	0.04
204102_s_at	IU	0.04		203209_at	IU	0.04
221535_at	IU	0.04		201930_at	IU	0.04
209665_at	IU	0.04		207667_s_at	IU	0.04

211784_s_at	IU	0.04	219935_at	IU	0.04
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200725_x_at	IU	0.04	201191_at	IU	0.04
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201498_at	IU	0.04	220159_at	IU	0.04
208351_s_at	IU	0.04	38398_at	IU	0.04
217618_x_at	IU	0.04	218715_at	IU	0.04
219175_s_at	IU	0.04	219081_at	IU	0.04
221214_s_at	IU	0.04	219600_s_at	IU	0.04
201412_at	IU	0.04	218543_s_at	IU	0.04
202149_at	IU	0.04	218986_s_at	IU	0.04
203874_s_at	IU	0.04	219290_x_at	IU	0.04
224596_at	IU	0.04	213022_s_at	IU	0.04
201786_s_at	IU	0.04	212318_at	IU	0.04
208969_at	IU	0.04	214435_x_at	IU	0.04
201713_s_at	IU	0.04	213988_s_at	IU	0.04
200674_s_at	IU	0.04	213704_at	IU	0.04
201414_s_at	IU	0.04	213867_x_at	IU	0.04
221987_s_at	IU	0.04	214895_s_at	IU	0.04
200937_s_at	IU	0.04	214730_s_at	IU	0.04
218053_at	IU	0.04	212791_at	IU	0.04
207229_at	IU	0.04	213876_x_at	IU	0.04
203971_at	IU	0.04	217964_at	IU	0.04
223033_s_at	IU	0.04	218135_at	IU	0.04
218107_at	IU	0.04	216396_s_at	IU	0.04
218486_at	IU	0.04	217527_s_at	IU	0.04
212456_at	IU	0.04	218103_at	IU	0.04
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203677_s_at	IU	0.04	218076_s_at	IU	0.04
204718_at	IU	0.04	218428_s_at	IU	0.04
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221260_s_at	IU	0.04	204860_s_at	IU	0.04
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205301_s_at	IU	0.04	203375_s_at	IU	0.04
206398_s_at	IU	0.04	203893_at	IU	0.04
201703_s_at	IU	0.04	221873_at	IU	0.04
216105_x_at	IU	0.04	221419_s_at	IU	0.04
223280_x_at	IU	0.04	220704_at	IU	0.04
205963_s_at	IU	0.04	221027_s_at	IU	0.04
218648_at	IU	0.04	211749_s_at	IU	0.04
205407_at	IU	0.04	211372_s_at	IU	0.04
212244_at	IU	0.04	210840_s_at	IU	0.04
226414_s_at	IU	0.04	209586_s_at	IU	0.04
206829_x_at	IU	0.04	210731_s_at	IU	0.04
221207_s_at	IU	0.04	212202_s_at	IU	0.04
203408_s_at	IU	0.04	210705_s_at	IU	0.04
206621_s_at	IU	0.04	210574_s_at	IU	0.04
203156_at	IU	0.04	211665_s_at	IU	0.04
201031_s_at	IU	0.04	210466_s_at	IU	0.04
205371_s_at	IU	0.04	212034_s_at	IU	0.04
220957_at	IU	0.04	210916_s_at	IU	0.04
217691_x_at	IU	0.04	202156_s_at	IU	0.04
223078_s_at	IU	0.04	202230_s_at	IU	0.04
201769_at	IU	0.04	202207_at	IU	0.04
201532_at	IU	0.04	202621_at	IU	0.04
206240_s_at	IU	0.04	205282_at	IU	0.04
206551_x_at	IU	0.04	206390_x_at	IU	0.04
202985_s_at	IU	0.04	208735_s_at	IU	0.04
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200044_at	IU	0.04	209430_at	IU	0.04
221904_at	IU	0.04	208727_s_at	IU	0.04
201939_at	IU	0.04	208853_s_at	IU	0.04

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200790_at	IU	0.04		205089_at	IU	0.04
200598_s_at	IU	0.04		206809_s_at	IU	0.04
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20132 l_s_at	IU	0.04		237504_at	IU	0.04
201528_at	IU	0.04		218144_s_at	IU	0.04
201221_s_at	IU	0.04		214707_x_at	IU	0.04
201544_x_at	IU	0.04		209287_s_at	IU	0.04
201623_s_at	IU	0.04		200810_s_at	IU	0.04
201133_s_at	IU	0.04		203852_s_at	IU	0.04
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201630_s_at	IU	0.04		203376_at	IU	0.04
201680_x_at	IU	0.04		209682_at	IU	0.04
20114 3_s_at	IU	0.04		209215_at	IU	0.04
201647_s_at	IU	0.04		211069_s_at	IU	0.04
237783_at	IU	0.04		213746_s_at	IU	0.04
208124_s_at	IU	0.04		201403_s_at	IU	0.04
2104 60_s_at	IU	0.04		211070_x_at	IU	0.04
219037_at	IU	0.04		220148_at	IU	0.04
209884_s_at	IU	0.04		211282_x_at	IU	0.04
210825_s_at	IU	0.04		204006_s_at	IU	0.04
216841_s_at	IU	0.04		219163_at	IU	0.04
218703_at	IU	0.04		213127_s_at	IU	0.04
224818_at	IU	0.04		213527_s_at	IU	0.04
208759_at	IU	0.04		218114_at	IU	0.04
203301_s_at	IU	0.04		212096_s_at	IU	0.04
2097 87_s_at	IU	0.04		205525_at	IU	0.04
201380_at	IU	0.04		206110_at	IU	0.04
213330_s_at	IU	0.04		208268_at	IU	0.04
224356_x_at	IU	0.04		200957_s_at	IU	0.04
202051_s_at	IU	0.04		210966_x_at	IU	0.04
220735_s_at	IU	0.04		203465_at	IU	0.04
232387_at	IU	0.04		212542_s_at	IU	0.04
218514_at	IU	0.04		229632_s_at	IU	0.04
205681_at	IU	0.04		209318_x_at	IU	0.04
221658_s_at	IU	0.04		203412_at	IU	0.04
202349_at	IU	0.04		203640_at	IU	0.04
206247_at	IU	0.04		200075_s_at	IU	0.04
65133_i_at	IU	0.04		208070_s_at	IU	0.04
2022 68_s_at	IU	0.04		200944_s_at	IU	0.04
201338_x_at	IU	0.04		242774_at	IU	0.04
219834_at	IU	0.04		201065_s_at	IU	0.04
200662_s_at	IU	0.04		213115_at	IU	0.04
201872_s_at	IU	0.04		219717_at	IU	0.04
205129_at	IU	0.04		220036_s_at	IU	0.04
203543_s_at	IU	0.04		218963_s_at	IU	0.04
219008_at	IU	0.04		214314_s_at	IU	0.04
217100_s_at	IU	0.04		213504_at	IU	0.04
212495_at	IU	0.04		216591_s_at	IU	0.04
212615_at	IU	0.04		203515_s_at	IU	0.04
211559_s_at	IU	0.04		222132_s_at	IU	0.04
228039_at	IU	0.04		221601_s_at	IU	0.04
203317_at	IU	0.04		212061_at	IU	0.04
210386_s_at	IU	0.04		202378_s_at	IU	0.04
232617_at	IU	0.04		205442_at	IU	0.04
220597_s_at	IU	0.04		205586_x_at	IU	0.04
220525_s_at	IU	0.04		205462_s_at	IU	0.04
34689_at	IU	0.04		209436_at	IU	0.04
20500 6_s_at	IU	0.04		209258_s_at	IU	0.04
202119_s_at	IU	0.04		209275_s_at	IU	0.04
209362_at	IU	0.04		208426_x_at	IU	0.04
202101_s_at	IU	0.04		208121_s_at	IU	0.04

1487_at	IU	0.04		207334_s_at	IW	1.53902e-03
201883_s_at	IU	0.04		206686_at	IW	1.53902e-03
200900_s_at	IU	0.04		227775_at	IW	1.569235e-03
209184_s_at	IU	0.04		224787_s_at	IW	1.569235e-03
202197_at	IU	0.04		224377_s_at	IW	1.569235e-03
204477_at	IU	0.04		218389_s_at	IW	1.569235e-03
214426_x_at	IU	0.04		220775_s_at	IW	1.569235e-03
203908_at	IU	0.04		206113_s_at	IW	1.569235e-03
212207_at	IU	0.04		207630_s_at	IW	1.569235e-03
209911_x_at	IU	0.04		207761_s_at	IW	1.569235e-03
217950_at	IU	0.04		1553750_a_at	IW	1.569235e-03
205205_at	IU	0.04		200796_s_at	IW	1.569235e-03
210288_at	IU	0.04		230469_at	IW	1.678702e-03
207601_at	IU	0.04		200744_s_at	IW	1.692302e-03
208152_s_at	IU	0.04		1555611_s_at	IW	1.701413e-03
203043_at	IU	0.04		201959_s_at	IW	1.848911e-03
208591_s_at	IW	1.23e-05		204581_at	IW	1.924219e-03
209799_at	IW	1.85e-05		216689_x_at	IW	1.93471e-03
210971_s_at	IW	5.93e-05		206053_at	IW	2.099609e-03
1553962_s_at	IW	6.04e-05		228034_x_at	IW	2.133193e-03
238587_at	IW	1.16e-04		205179_s_at	IW	2.133193e-03
207164_s_at	IW	1.16e-04		210145_at	IW	2.212795e-03
1555565_s_at	IW	1.16e-04		207629_s_at	IW	2.313056e-03
227220_at	IW	1.79e-04		229091_s_at	IW	2.369657e-03
201798_s_at	IW	2.14e-04		217371_s_at	IW	2.369657e-03
242123_at	IW	2.99e-04		203579_s_at	IW	2.369657e-03
222082_at	IW	2.99e-04		203718_at	IW	2.369657e-03
210231_x_at	IW	3.02e-04		205504_at	IW	2.369657e-03
209853_s_at	IW	3.7e-04		1565716_at	IW	2.369657e-03
204186_s_at	IW	3.74e-04		1552611_a_at	IW	2.369657e-03
222458_s_at	IW	3.74e-04		1557053_s_at	IW	2.369657e-03
212008_at	IW	3.74e-04		200778_s_at	IW	2.369657e-03
211771_s_at	IW	3.74e-04		201936_s_at	IW	2.369657e-03
201886_at	IW	3.74e-04		201211_s_at	IW	2.369657e-03
203834_s_at	IW	5.21e-04		200872_at	IW	2.369657e-03
1554450_s_at	IW	5.89e-04		206708_at	IW	2.536609e-03
217824_at	IW	6.26e-04		212456_at	IW	2.697461e-03
209717_at	IW	6.26e-04		228217_s_at	IW	2.758157e-03
202730_s_at	IW	6.26e-04		1565818_s_at	IW	2.878643e-03
206488_s_at	IW	6.26e-04		228281_at	IW	2.940086e-03
207686_s_at	IW	6.26e-04		204864_s_at	IW	2.940086e-03
208351_s_at	IW	6.26e-04		1553106_at	IW	2.940086e-03
207067_s_at	IW	7.88e-04		201814_at	IW	3.029037e-03
205921_s_at	IW	8.03e-04		208947_s_at	IW	3.033972e-03
205822_s_at	IW	8.22e-04		207419_s_at	IW	3.172093e-03
204440_at	IW	9.37e-04		226442_at	IW	3.173524e-03
233575_s_at	IW	1.008216e-03		219150_s_at	IW	3.288839e-03
209653_at	IW	1.008216e-03		209960_at	IW	3.288839e-03
209906_at	IW	1.008216e-03		212599_at	IW	3.30807e-03
204929_s_at	IW	1.008216e-03		209305_s_at	IW	3.343202e-03
205349_at	IW	1.008216e-03		223703_at	IW	3.48286e-03
207594_s_at	IW	1.008216e-03		239335_at	IW	3.48286e-03
207734_at	IW	1.008216e-03		219574_at	IW	3.48286e-03
208121_s_at	IW	1.008216e-03		219368_at	IW	3.48286e-03
1554451_s_at	IW	1.008216e-03		213741_s_at	IW	3.48286e-03
205917_at	IW	1.017989e-03		213986_s_at	IW	3.48286e-03
226837_at	IW	1.073433e-03		218465_at	IW	3.48286e-03
202781_s_at	IW	1.088973e-03		222563_s_at	IW	3.48286e-03
221962_s_at	IW	1.322951e-03		221082_s_at	IW	3.48286e-03
228176_at	IW	1.335403e-03		211864_s_at	IW	3.48286e-03
206120_at	IW	1.335403e-03		211230_s_at	IW	3.48286e-03
223143_s_at	IW	1.360747e-03		210162_s_at	IW	3.48286e-03
200952_s_at	IW	1.476515e-03		211559_s_at	IW	3.48286e-03
229933_at	IW	1.508178e-03		203217_s_at	IW	3.48286e-03

203134_at	IW	3.48286e-03
206748_s_at	IW	3.48286e-03
208447_s_at	IW	3.48286e-03
207735_at	IW	3.48286e-03
1553709_a_at	IW	3.48286e-03
1554757_a_at	IW	3.48286e-03
37152_at	IW	3.595303e-03
1555407_s_at	IW	3.632482e-03
238562_at	IW	3.70151e-03
212404_s_at	IW	4.036551e-03
201668_x_at	IW	4.237273e-03
218883_s_at	IW	4.385394e-03
206695_x_at	IW	4.386969e-03
202058_s_at	IW	4.402941e-03
64408_s_at	IW	4.431886e-03
235802_at	IW	4.442751e-03
220750_s_at	IW	4.488829e-03
213936_x_at	IW	4.548173e-03
41160_at	IW	4.580607e-03
223204_at	IW	4.62076e-03
207446_at	IW	4.667282e-03
217489_s_at	IW	4.775288e-03
205566_at	IW	4.80624e-03
218641_at	IW	4.810928e-03
208485_x_at	IW	4.874958e-03
1552927_at	IW	4.907504e-03
218988_at	IW	4.914215e-03
210042_s_at	IW	4.933207e-03
201226_at	IW	4.982943e-03
235744_at	IW	4.984988e-03
226241_s_at	IW	4.995906e-03
228239_at	IW	4.995906e-03
238669_at	IW	4.995906e-03
218559_s_at	IW	4.995906e-03
212731_at	IW	4.995906e-03
213224_s_at	IW	4.995906e-03
218206_x_at	IW	4.995906e-03
216997_x_at	IW	4.995906e-03
220832_at	IW	4.995906e-03
222804_x_at	IW	4.995906e-03
211097_s_at	IW	4.995906e-03
202947_s_at	IW	4.995906e-03
204980_at	IW	4.995906e-03
209188_x_at	IW	4.995906e-03
1553165_at	IW	4.995906e-03
1552806_a_at	IW	4.995906e-03
201590_x_at	IW	4.995906e-03
201179_s_at	IW	4.995906e-03
201461_s_at	IW	4.995906e-03
44822_s_at	IW	5.089248e-03
219797_at	IW	5.181182e-03
212467_at	IW	5.34919e-03
231922_at	IW	5.358396e-03
233878_s_at	IW	5.446281e-03
207633_s_at	IW	5.553057e-03
205997_at	IW	5.6175e-03
214975_s_at	IW	5.832303e-03
1552610_a_at	IW	6.066191e-03
1554167_a_at	IW	6.109549e-03
221060_s_at	IW	6.189672e-03
223205_s_at	IW	6.202404e-03
217872_at	IW	6.23872e-03
210427_x_at	IW	6.277524e-03
211665_s_at	IW	6.289524e-03
202684_s_at	IW	6.30705e-03
219834_at	IW	6.311297e-03
205026_at	IW	6.60737e-03
207549_x_at	IW	6.707173e-03
219067_s_at	IW	6.759915e-03
201587_s_at	IW	6.779815e-03
205992_s_at	IW	6.867127e-03
216652_s_at	IW	6.885647e-03
204183_s_at	IW	6.915927e-03
224988_at	IW	7.010066e-03
232661_s_at	IW	7.010066e-03
228505_s_at	IW	7.010066e-03
236600_at	IW	7.010066e-03
38671_at	IW	7.010066e-03
218684_at	IW	7.010066e-03
220162_s_at	IW	7.010066e-03
219991_at	IW	7.010066e-03
219843_at	IW	7.010066e-03
220121_at	IW	7.010066e-03
219639_x_at	IW	7.010066e-03
214697_s_at	IW	7.010066e-03
213626_at	IW	7.010066e-03
218005_at	IW	7.010066e-03
202130_at	IW	7.010066e-03
202488_s_at	IW	7.010066e-03
202199_s_at	IW	7.010066e-03
202206_at	IW	7.010066e-03
207793_s_at	IW	7.010066e-03
208442_s_at	IW	7.010066e-03
209268_at	IW	7.010066e-03
208623_s_at	IW	7.010066e-03
1554834_a_at	IW	7.010066e-03
1553581_s_at	IW	7.010066e-03
200999_s_at	IW	7.010066e-03
201192_s_at	IW	7.010066e-03
238695_s_at	IW	7.141047e-03
39835_at	IW	7.141047e-03
1552554_a_at	IW	7.141047e-03
1553626_a_at	IW	7.149472e-03
219551_at	IW	7.169719e-03
209085_x_at	IW	7.243926e-03
206910_x_at	IW	7.248216e-03
207181_s_at	IW	7.248216e-03
202732_at	IW	7.31364e-03
218274_s_at	IW	7.417291e-03
205306_x_at	IW	7.460088e-03
206917_at	IW	7.589657e-03
210904_s_at	IW	7.597089e-03
205920_at	IW	7.797941e-03
1553579_a_at	IW	7.829479e-03
206666_at	IW	8.020555e-03
225267_at	IW	8.025841e-03
215332_s_at	IW	8.166914e-03
218734_at	IW	8.287156e-03
205134_s_at	IW	8.43127e-03
220575_at	IW	8.778034e-03
202366_at	IW	8.778034e-03
205752_s_at	IW	8.778034e-03
201193_at	IW	8.790242e-03
223099_s_at	IW	8.84573e-03
221002_s_at	IW	8.965164e-03
212199_at	IW	9.101172e-03
206925_at	IW	9.218032e-03
205197_s_at	IW	9.239607e-03

20194 _s_at	lw	9T3 0684 6e-03		221057 _at	IW	0.01
200604 _s_at	IW	9.483666e-03		210286 _s_at	IW	0.01
238530 _at	IW	9.614631e-03		1555248 i_a_at	IW	0.01
224364 _s_at	IW	9.640967e-03		1552612 :_at	IW	0.01
225997 _at	IW	9.640967e-03		203773 _x_at	IW	0.01
225195 _at	IW	9.640967e-03		206184 _at	IW	0.01
219812 _at	IW	9.640967e-03		219402 _s_at	IW	0.01
218586 _at	IW	9.640967e-03		221553 _at	IW	0.01
213480 _at	IW	9.640967e-03		202731 _at	IW	0.01
214336 _s_at	IW	9.640967e-03		1560274 _at	IW	0.01
217475 _s_at	IW	9.640967e-03		214618 _at	IW	0.01
218322 _s_at	IW	9.640967e-03		221517 _s_at	IW	0.01
204837 _at	IW	9.640967e-03		209556 _at	IW	0.01
203719 _at	lw	9.640967e-03		215236 _s_at	IW	0.01
203299 _s_at	IW	9.640967e-03		224865 _at	IW	0.01
223289 _s_at	IW	9.640967e-03		201044 _x_at	IW	0.01
209927 _s_at	IW	9.640967e-03		202855 _s_at	IW	0.01
211521 _s_at	IW	9.640967e-03		203198 _at	IW	0.01
211299 _s_at	IW	9.640967e-03		1558953 ;_s_at	IW	0.01
211672 _s_at	IW	9.640967e-03		213133 _s_at	IW	0.01
202654 _x_at	IW	9.640967e-03		218811 _at	IW	0.01
202356 _s_at	IW	9.640967e-03		226851 _at	IW	0.01
202436 _s_at	IW	9.640967e-03		225228 _at	IW	0.01
203047 _at	IW	9.640967e-03		226994 _at	IW	0.01
207408 _at	IW	9.640967e-03		241353 _s_at	IW	0.01
206471 _s_at	IW	9.640967e-03		231714 _s_at	IW	0.01
205076 _s_at	IW	9.640967e-03		65591 _at	IW	0.01
205603 _s_at	IW	9.640967e-03		218771 _at	IW	0.01
207485 _x_at	IW	9.640967e-03		218926 _at	IW	0.01
207872 _s_at	IW	9.640967e-03		213503 _x_at	IW	0.01
1553113 _s_at	IW	9.640967e-03		214864 _s_at	IW	0.01
1558254 _s_at	IW	9.640967e-03		212514 _x_at	IW	0.01
1552798 _a_at	IW	9.640967e-03		212831 _at	IW	0.01
1552541 _at	IW	9.640967e-03		214551 _s_at	IW	0.01
1563111 _a_at	IW	9.640967e-03		217787 _s_at	IW	0.01
201903 _at	IW	9.640967e-03		218472 _s_at	IW	0.01
201014 _s_at	IW	9.640967e-03		218008 _at	IW	0.01
231270 _at	IW	9.8334e-03		218217 _at	IW	0.01
205317 _s_at	IW	9.870129e-03		203413 _at	IW	0.01
233292 _s_at	IW	9.909526e-03		203791 _at	IW	0.01
1557158 _s_at	IW	9.935715e-03		203789 _s_at	IW	0.01
202068 _s_at	IW	9.970776e-03		223474 _at	IW	0.01
1565269 _s_at	IW	0.01		223005 _s_at	IW	0.01
202613 _at	IW	0.01		221249 _s_at	IW	0.01
215159 _s_at	IW	0.01		222750 _s_at	IW	0.01
211574 _s_at	IW	0.01		210116 _at	IW	0.01
1552660 _a_at	IW	0.01		210054 _at	IW	0.01
235222 _x_at	IW	0.01		210048 _at	IW	0.01
202089 _s_at	IW	0.01		212139 _at	IW	0.01
217965 _s_at	IW	0.01		211163 _s_at	IW	0.01
225800 _at	IW	0.01		202599 _s_at	IW	0.01
237338 _at	IW	0.01		202290 _at	IW	0.01
37966 _at	IW	0.01		206405 _x_at	IW	0.01
207223 _s_at	IW	0.01		205526 _s_at	IW	0.01
228490 _at	IW	0.01		205371 _s_at	IW	0.01
1559052 _s_at	IW	0.01		207431 _s_at	IW	0.01
201536 _at	IW	0.01		207821 _s_at	IW	0.01
222099 _s_at	IW	0.01		208917 _x_at	IW	0.01
203796 _s_at	IW	0.01		209406 _at	IW	0.01
223966 _at	IW	0.01		1555154 _a_at	IW	0.01
220320 _at	IW	0.01		1558699 _a_at	IW	0.01
224892 _at	IW	0.01		200710 _at	IW	0.01
205411 _at	IW	0.01		1554152 _a_at	IW	0.01
228099 _at	IW	0.01		200983 _x_at	IW	0.01

201392_s_at	IW	0.01
201401_s_at	IW	0.01
201310_s_at	IW	0.01
225209_s_at	IW	0.01
215984_s_at	iw	0.01
201900_s_at	IW	0.01
205238_at	IW	0.01
1554145_a_at	IW	0.01
1553533_at	IW	0.01
207535_s_at	IW	0.01
219720_s_at	IW	0.01
210455_at	IW	0.01
216551_x_at	IW	0.01
231918_s_at	IW	0.01
222777_s_at	IW	0.01
222636_at	IW	0.01
207707_s_at	IW	0.01
1554311_a_at	IW	0.01
210969_at	IW	0.01
221638_s_at	IW	0.01
201743_at	IW	0.01
201370_s_at	IW	0.01
206222_at	IW	0.01
204538_x_at	IW	0.01
221239_s_at	IW	0.01
209456_s_at	IW	0.01
200664_s_at	IW	0.01
223781_x_at	IW	0.01
201055_s_at	IW	0.01
208146_s_at	IW	0.01
229082_at	IW	0.01
50400_at	IW	0.01
202374_s_at	IW	0.01
1569107_s_at	IW	0.01
1563088_a_at	IW	0.01
226443_at	IW	0.01·
1554365_a_at	IW	0.01
223212_at	IW	0.01
206177_s_at	IW	0.01
206474_at	IW	0.01
210005_at	IW	0.01
212106_at	IW	0.01
54037_at	IW	0.01
225140_at	IW	0.01
219833_s_at	IW	0.01
206770_s_at	IW	0.01
202279_at	IW	0.01
206157_at	IW	0.01
204392_at	IW	0.01
1552501_a_at	IW	0.01
211729_x_at	IW	0.01
237255_at	IW	0.01
226925_at	IW	0.01
208886_at	IW	0.01
209922_at	IW	0.01
225844_at	IW	0.01
226901_at	IW	0.01
225576_at	IW	0.01
233924_s_at	IW	0.01
38069_at	IW	0.01
31826_at	IW	0.01
AFFX-HUMISGF3A/		
M9793	IW	0.01
212257_s_at	IW	0.01

213178_s_at	IW	0.01
214470_at	IW	0.01
216218_s_at	IW	0.01
218124_at	IW	0.01
204445_s_at	IW	0.01
204193_at	IW	0.01
204634_at	IW	0.01
222806_s_at	IW	0.01
210360_s_at	IW	0.01
211138_s_at	IW	0.01
211395_x_at	IW	0.01
202422_s_at	IW	0.01
202858_at	IW	0.01
202166_s_at	IW	0.01
202351_at	IW	0.01
202527_s_at	IW	0.01
202847_at	IW	0.01
202362_at	IW	0.01
202378_s_at	IW	0.01
204995_at	IW	0.01
206643_at	IW	0.01
209141_at	IW	0.01
208923_at	IW	0.01
208840_s_at	IW	0.01
200743_s_at	IW	0.01
200776_s_at	IW	0.01
1552977_a_at	IW	0.01
201881_s_at	IW	0.01
201772_at	IW	0.01
208407_s_at	IW	0.01
225188_at	IW	0.01
239761_at	IW	0.01
222231_s_at	IW	0.01
1570007_at	IW	0.01
212647_at	IW	0.01
207782_s_at	IW	0.01
223662_x_at	IW	0.01
228184_at	IW	0.01
208363_s_at	IW	0.01
222821_s_at	IW	0.01
231897_at	IW	0.01
211797_s_at	IW	0.01
206470_at	IW	0.01
206245_s_at	IW	0.01
224595_at	IW	0.01
209253_at	IW	0.01
226075_at	IW	0.01
229045_at	IW	0.01
203434_s_at	IW	0.01
201367_s_at	IW	0.01
226862_at	IW	0.01
210772_at	IW	0.01
201027_s_at	IW	0.01
216100_s_at	IW	0.01
202444_s_at	IW	0.01
208118_x_at	IW	0.01
200648_s_at	IW	0.01
209162_s_at	IW	0.01
220494_s_at	IW	0.01
220349_s_at	IW	0.01
204630_s_at	IW	0.01
218103_at	IW	0.01
224311_s_at	IW	0.01
225647_s_at	IW	0.01

23088T_at	IW	0.02		204102_s_at	IW	0.02
205726_at	IW	0.02		223175_s_at	IW	0.02
220888_s_at	IW	0.02		220735_s_at	IW	0.02
208047_s_at	IW	0.02		220925_at	IW	0.02
1558249_s_at	IW	0.02		221269_s_at	IW	0.02
1552812_a_at	IW	0.02		209684_at	IW	0.02
232084_at	IW	0.02		211612_s_at	IW	0.02
229468_at	IW	0.02		203053_at	IW	0.02
218718_at	IW	0.02		202946_s_at	IW	0.02
234944_s_at	IW	0.02		202971_s_at	IW	0.02
213081_at	IW	0.02		202944_at	IW	0.02
1554783_s_at	IW	0.02		202065_s_at	IW	0.02
203885_at	IW	0.02		205211_s_at	IW	0.02
242163_at	IW	0.02		206788_s_at	IW	0.02
218399_s_at	IW	0.02		205005_s_at	IW	0.02
218458_at	iw	0.02		209288_s_at	IW	0.02
222555_s_at	IW	0.02		209306_s_at	IW	0.02
226058_at	IW	0.02		209034_at	IW	0.02
212553_at	IW	0.02		208735_s_at	IW	0.02
208541_x_at	IW	0.02		209286_at	IW	0.02
201337_s_at	IW	0.02		209379_s_at	IW	0.02
221443_x_at	IW	0.02		208424_s_at	IW	0.02
1557944_s_at	IW	0.02		1555355_a_at	IW	0.02
1553055_a_at	IW	0.02		200607_s_at	IW	0.02
1552772_at	IW	0.02		1552613_s_at	IW	0.02
200782_at	IW	0.02		1553102_a_at	IW	0.02
210092_at	IW	0.02		201020_at	IW	0.02
1552737_s_at	IW	0.02		201457_x_at	IW	0.02
208642_s_at	IW	0.02		201771_at	IW	0.02
203923_s_at	IW	0.02		211102_s_at	IW	0.02
221345_at	IW	0.02		222983_s_at	IW	0.02
220235_s_at	IW	0.02		223709_s_at	IW	0.02
228253_at	IW	0.02		227871_at	IW	0.02
200730_s_at	IW	0.02		220146_at	IW	0.02
238638_at	IW	0.02		201971_s_at	IW	0.02
225517_at	IW	0.02		211561_x_at	IW	0.02
1568606_at	IW	0.02		225746_at	IW	0.02
228332_s_at	IW	0.02		213704_at	IW	0.02
224797_at	IW	0.02		220096_at	IW	0.02
223887_at	IW	0.02		201685_s_at	IW	0.02
224407_s_at	IW	0.02		218473_s_at	IW	0.02
224416_s_at	IW	0.02		204521_at	IW	0.02
243589_at	IW	0.02		217897_at	IW	0.02
242247_at	IW	0.02		221628_s_at	IW	0.02
242814_at	IW	0.02		222782_s_at	IW	0.02
47105_at	IW	0.02		226743_at	IW	0.02
230214_at	IW	0.02		218122_s_at	IW	0.02
219787_s_at	IW	0.02		203128_at	IW	0.02
218764_at	IW	0.02		213104_at	IW	0.02
219292_at	IW	0.02		201943_s_at	IW	0.02
214314_s_at	IW	0.02		208290_s_at	IW	0.02
217853_at	IW	0.02		214698_at	IW	0.02
218102_at	IW	0.02		216899_s_at	IW	0.02
218127_at	IW	0.02		220800_s_at	IW	0.02
218295_s_at	IW	0.02		204706_at	IW	0.02
218129_s_at	IW	0.02		200950_at	IW	0.02
217810_x_at	IW	0.02		237076_at	IW	0.02
204780_s_at	IW	0.02		1553702_at	IW	0.02
203507_at	IW	0.02		238692_at	IW	0.02
203362_s_at	IW	0.02		218544_s_at	IW	0.02
204010_s_at	IW	0.02		216901_s_at	IW	0.02
204661_at	IW	0.02		204687_at	IW	0.02
203909_at	IW	0.02		223223_at	IW	0.02
203643_at	IW	0.02		207907_at	IW	0.02

Probe			Probe		
1552822_at	iw	0.02	223078_s_at	IW	0.02
200007_at	IW	0.02	223282_at	IW	0.02
218768_at	IW	0.02	223417_at	IW	0.02
205776_at	IW	0.02	221011_s_at	IW	0.02
202523_s_at	IW	0.02	221499_s_at	IW	0.02
1555830_s_at	IW	0.02	211941_s_at	IW	0.02
223131_s_at	IW	0.02	210541_s_at	IW	0.02
204132_s_at	iw	0.02	202650_s_at	IW	0.02
224918_x_at	IW	0.02	202416_at	IW	0.02
204036_at	IW	0.02	205594_at	IW	0.02
228009_x_at	IW	0.02	208677_s_at	IW	0.02
205041_s_at	IW	0.02	209142_s_at	IW	0.02
210735_s_at	IW	0.02	208996_s_at	IW	0.02
201835_s_at	IW	0.02	208137_x_at	IW	0.02
204881_s_at	IW	0.02	209362_at	IW	0.02
220175_s_at	IW	0.02	1559946_s_at	IW	0.02
217796_s_at	IW	0.02	200798_x_at	IW	0.02
209674_at	IW	0.02	1552542_s_at	IW	0.02
226163_at	IW	0.02	1553723_at	IW	0.02
219174_at	IW	0.02	1555167_s_at	IW	0.02
205346_at	IW	0.02	1568609_s_at	IW	0.02
219496_at	IW	0.02	200919_at	IW	0.02
220000_at	IW	0.02	200870_at	IW	0.02
214352_s_at	IW	0.02	201235_s_at	IW	0.02
219507_at	IW	0.02	201376_s_at	IW	0.02
206928_at	IW	0.02	201425_at	IW	0.02
210951_x_at	IW	0.02	201736_s_at	IW	0.02
57532_at	IW	0.02	201888_s_at	IW	0.02
202435_s_at	IW	0.02	200929_at	IW	0.02
224670_at	IW	0.02	228788_at	IW	0.02
201560_at	IW	0.02	226947_at	IW	0.02
206472_s_at	IW	0.02	227869_at	IW	0.02
212334_at	IW	0.02	219750_at	IW	0.02
223787_s_at	IW	0.02	219868_s_at	IW	0.02
224221_s_at	IW	0.02	203145_at	IW	0.02
240288_at	IW	0.02	202380_s_at	IW	0.02
241027_at	IW	0.02	205708_s_at	IW	0.03
238324_at	IW	0.02	207126_x_at	IW	0.03
212407_at	IW	0.02	218746_at	IW	0.03
206220_s_at	IW	0.02	202663_at	IW	0.03
205750_at	IW	0.02	208864_s_at	IW	0.03
202198_s_at	IW	0.02	217893_s_at	IW	0.03
208983_s_at	IW	0.02	228696_at	IW	0.03
207079_s_at	IW	0.02	209008_x_at	IW	0.03
224281_s_at	IW	0.02	1555106_a_at	IW	0.03
223649_s_at	IW	0.02	1553514_a_at	IW	0.03
223584_s_at	IW	0.02	1555470_a_at	IW	0.03
225527_at	IW	0.02	205659_at	IW	0.03
36129_at	IW	0.02	201773_at	IW	0.03
244752_at	IW	0.02	220187_at	IW	0.03
238462_at	IW	0.02	238199_x_at	IW	0.03
244766_at	IW	0.02	207605_x_at	IW	0.03
219734_at	IW	0.02	207700_s_at	IW	0.03
220023_at	IW	0.02	214550_s_at	IW	0.03
218502_s_at	IW	0.02	227018_at	IW	0.03
218859_s_at	IW	0.02	205782_at	IW	0.03
218930_s_at	IW	0.02	227540_at	IW	0.03
212301_at	IW	0.02	206743_s_at	IW	0.03
213539_at	IW	0.02	220572_at	IW	0.03
213527_s_at	IW	0.02	210173_at	IW	0.03
214055_x_at	IW	0.02	210786_s_at	IW	0.03
218056_at	IW	0.02	231973_s_at	IW	0.03
222502_s_at	IW	0.02	240159_at	IW	0.03
			211801_x_at	IW	0.03

225589_at	IW	0.03		224523_s_at	IW	0.03
3562 6_at	IW	0.03		224046_s__at	IW	0.03
1553162_x_at	IW	0.03		225864_at	IW	0.03
210102_at	IW	0.03		224097_s_at	IW	0.03
224368_s_at	IW	0.03		38447_at	IW	0.03
206715_at	IW	0.03		219694_at	IW	0.03
1554614_a_at	IW	0.03		219032_x_at	IW	0.03
225189_s_at	IW	0.03		219679_s_at	IW	0.03
214849_at	IW	0.03		220132_s_at	IW	0.03
220936_s_at	IW	0.03		220386_s_at	IW	0.03
212107_s_at	IW	0.03		219118_at	IW	0.03
207439_s_at	IW	0.03		214895_s_at	IW	0.03
207117_at	IW	0.03		214544_s_at	IW	0.03
202284_s_at	IW	0.03		217755_at	IW	0.03
224666_at	IW	0.03		217725_x_at	IW	0.03
219089_s_at	IW	0.03		217100_s_at	IW	0.03
218817_at	IW	0.03		217094_s_at	IW	0.03
202968_s_at	IW	0.03		217208_s_at	IW	0.03
203630_s_at	IW	0.03		218013_x_at	IW	0.03
210540_s_at	IW	0.03		218215_s_at	IW	0.03
218247_s_at	IW	0.03		204427_s_at	IW	0.03
208707_at	IW	0.03		203285_s_at	IW	0.03
210187_at	IW	0.03		204037_at	IW	0.03
210995_s_at	IW	0.03		203568_s_at	IW	0.03
1553697_at	IW	0.03		203427_at	IW	0.03
223419_at	IW	0.03		222035_s_at	IW	0.03
217858_s_at	IW	0.03		220964_s_at	IW	0.03
228454_at	IW	0.03		221260_s_at	IW	0.03
233106_at	IW	0.03		222441_x_at	IW	0.03
243026_x_at	IW	0.03		222406_s_at	IW	0.03
217353__at	IW	0.03		222651_s_at	IW	0.03
214869_x__at	IW	0.03		222686_s_at	IW	0.03
201866_s[_at	IW	0.03		222688_at	IW	0.03
222867_s_at	IW	0.03		212218_s_at	IW	0.03
205173_x_at	IW	0.03		202120_x_at	IW	0.03
219375__at	IW	0.03		202567_at	IW	0.03
209728_at	IW	0.03		202978_s_at	IW	0.03
1557227_s_at	IW	0.03		205297__s_at	IW	0.03
216252_x_at	IW	0.03		206042_x_at	IW	0.03
207565_s_at	IW	0.03		206098_at	IW	0.03
201326_at	IW	0.03		208932_at	IW	0.03
235540_at	IW	0.03		207777_s_at	IW	0.03
222115_x_at	IW	0.03		207724_s_at	IW	0.03
207464_at	IW	0.03		207654_x_at	IW	0.03
222462_s_at	IW	0.03		208151_x_at	IW	0.03
217487_x_at	IW	0.03		208750_s_at	IW	0.03
211948_x_at	IW	0.03		209189_at	IW	0.03
217310_s_at	IW	0.03		208654_s_at	IW	0.03
227721__at	IW	0.03		208264_s_at	IW	0.03
204770_at	IW	0.03		209055_s_at	IW	0.03
210695__s_at	IW	0.03		200719_at	IW	0.03
210423_s_at	IW	0.03		156386 3_x_at	IW	0.03
201221__s_at	IW	0.03		1553856_s_at	IW	0.03
217981_s_at	IW	0.03		1553685_s_at	IW	0.03
218715_at	IW	0.03		1554105_at	IW	0.03
217916_s_at	IW	0.03		200669_s_at	IW	0.03
223819_x_at	IW	0.03		200960_x_at	IW	0.03
217994_x_at	IW	0.03		201781_s_at	IW	0.03
222883_at	IW	0.03		200941_at	IW	0.03
239143_x_at	IW	0.03		1557103_a_at	IW	0.03
209744_x_at	IW	0.03		1555419_a_at	IW	0.03
3444 9_at	IW	0.03		1563657_at	IW	0.03
203305_at	IW	0.03		201433_s_at	IW	0.03
226639_at	IW	0.03		207304_at	IW	0.03

218941_at	IW	0.03		202201_at	IW	0.04
224987_at	IW	0.03		222789_at	IW	0.04
213063_at	IW	0.03		202081_at	IW	0.04
214543_x_at	IW	0.03		219349_s_at	IW	0.04
1553280_at	IW	0.03		211136_s_at	IW	0.04
214449_s_at	IW	0.03		204077_x_at	IW	0.04
200811_at	IW	0.03		207859_s_at	IW	0.04
207332_s_at	IW	0.03		215719_x_at	IW	0.04
210188_at	IW	0.03		37793_r_at	IW	0.04
1556336_at	IW	0.03		208761_s_at	IW	0.04
231858_x_at	IW	0.03		212539_at	IW	0.04
1552863_a_at	IW	0.03		225754_at	IW	0.04
217729_s_at	IW	0.03		36865_at	IW	0.04
1564816_at	IW	0.03		202820_at	IW	0.04
221222_s_at	IW	0.03		203360_s_at	IW	0.04
229305_at	IW	0.03		225693_s_at	IW	0.04
219165_at	IW	0.03		219190_s_at	IW	0.04
206693_at	IW	0.03		227887_at	IW	0.04
203194_s_at	IW	0.03		201818_at	IW	0.04
201586_s_at	IW	0.03		206536_s_at	IW	0.04
203676_at	IW	0.04		224333_s_at	IW	0.04
201604_s_at	IW	0.04		235202_x_at	IW	0.04
238974_at	IW	0.04		1552344_s_at	IW	0.04
209774_x_at	IW	0.04		204152_s_at	IW	0.04
34689_at	IW	0.04		1552264_a_at	IW	0.04
1553928_at	IW	0.04		55662_at	IW	0.04
232946_s_at	IW	0.04		222853_at	IW	0.04
203182_s_at	IW	0.04		207098_s_at	IW	0.04
209038_s_at	IW	0.04		201580_s_at	IW	0.04
205961_s_at	IW	0.04		220052_s_at	IW	0.04
1568713_a_at	IW	0.04		218946_at	IW	0.04
200736_s_at	IW	0.04		207167_at	IW	0.04
223846_at	IW	0.04		202908_at	IW	0.04
213772_s_at	IW	0.04		1555037_a_at	IW	0.04
220943_s_at	IW	0.04		241742_at	IW	0.04
200897_s_at	IW	0.04		209780_at	IW	0.04
203377_s_at	IW	0.04		1552773_at	IW	0.04
225858_s_at	IW	0.04		212919_at	IW	0.04
231059_x_at	IW	0.04		227057_at	IW	0.04
201156_s_at	IW	0.04		221484_at	IW	0.04
224856_at	IW	0.04		210846_x_at	IW	0.04
231736_x_at	IW	0.04		218106_s_at	IW	0.04
219192_at	IW	0.04		213554_s_at	IW	0.04
225030_at	IW	0.04		227361_at	IW	0.04
217852_s_at	IW	0.04		225836_s_at	IW	0.04
202981_x_at	IW	0.04		226238_at	IW	0.04
238677_at	IW	0.04		224983_at	IW	0.04
218610_s_at	IW	0.04		224910_at	IW	0.04
218048_at	IW	0.04		236140_at	IW	0.04
209452_s_at	IW	0.04		235296_at	IW	0.04
217722_s_at	IW	0.04		49077_at	IW	0.04
226314_at	IW	0.04		242760_x_at	IW	0.04
34868_at	IW	0.04		218498_s_at	IW	0.04
232353_s_at	IW	0.04		220352_x_at	IW	0.04
219384_s_at	IW	0.04		219439_at	IW	0.04
216933_x_at	IW	0.04		218932_at	IW	0.04
223113_at	IW	0.04		218512_at	IW	0.04
209643_s_at	IW	0.04		212763_at	IW	0.04
209758_s_at	IW	0.04		214221_at	IW	0.04
212254_s_at	IW	0.04		212636_at	IW	0.04
1558027_s_at	IW	0.04		213940_s_at	IW	0.04
201348_at	IW	0.04		212720_at	IW	0.04
209743_s_at	IW	0.04		212737_at	IW	0.04
216316_x_at	IW	0.04		217868_s_at	IW	0.04

2044b4	at	IW	-0 .Dr	235163_at	IW	0.04
204174_at	IW	0.04		202460_s_at	IW	0.04
204112_s_at	IW	0.04		200898_s_at	IW	0.04
203832_at	IW	0.04		203644_s_at	iw	0.04
203843_at	IW	0.04		222652_s_at	lw	0.04
203656_at	IW	0.04		225401_at	IW	0.04
204562_at	IW	0.04		222922_at	IW	0.04
223347_at	IW	0.04		209158_s_at	IW	0.04
223343_at	IW	0.04		224674_at	IW	0.04
222522_x_at	IW	0.04		34478_at	IW	0.04
222642_s_at	IW	0.04		204160_s_at	IW	0.04
223217_s_at	IW	0.04		222768_s_at	IW	0.04
222217_s_at	IW	0.04		201111_at	IZ	6.57e-06
223431_at	IW	0.04		210053_at	IZ	6.82e-06
222401_s_at	IW	0.04		214696_at	IZ	1.02e-05
222625_s_at	IW	0.04		205214_at	IZ	1.02e-05
210818_s_at	IW	0.04		220992_s_at	IZ	1.06e-05
209551_at	IW	0.04		203202_at	IZ	1.35e-05
209880_s_at	IW	0.04		219538_at	IZ	1.78e-05
210154_at	IW	0.04		202613_at	IZ	2.31e-05
202593_s_at	IW	0.04		222047_s_at	iz	3.31e-05
202334_s_at	IW	0.04		203956_at	IZ	3.63e-05
202051_s_at	IW	0.04		218577_at	IZ	3.65e-05
202742_s_at	IW	0.04		219276_x_at	IZ	4.15e-05
206828_at	IW	0.04		212405_s_at	IZ	4.49e-05
206111_at	IW	0.04		221676_s_at	IZ	5.03e-05
205260_s_at	IW	0.04		213524_s_at	IZ	5.8e-05
205047_s_at	IW	0.04		203406_at	IZ	6.68e-05
206636_at	IW	0.04		222774_s_at	IZ	7.39e-05
209337_at	IW	0.04		208709_s_at	IZ	8.76e-05
207983_s_at	IW	0.04		212589_at	IZ	8.89e-05
209344_at	IW	0.04		203428_s_at	IZ	9.66e-05
200617_at	IW	0.04		219594_at	IZ	1.05e-04
1554014_at	IW	0.04		222204_s_at	IZ	1.08119e-04
1554455_at	IW	0.04		206314_at	IZ	1.11e-04
1552472_a_at	IW	0.04		212905_at	IZ	1.15e-04
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201133_s_at	IW	0.04		203427_at	IZ	1.4e-04
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222573_s_at	IW	0.04		212500_at	IZ	1.56e-04
1553587_a_at	IW	0.04		211998_at	IZ	1.65e-04
224785_at	IW	0.04		121_at	IZ	1.71e-04
212974_at	IW	0.04		1555522_s_at	IZ	1.73e-04
220774_at	IW	0.04		203846_at	IZ	1.74e-04
222558_at	IW	0.04		205917_at	IZ	1.77e-04
209149_s_at	IW	0.04		206170_at	IZ	1.78e-04
221326_s_at	IW	0.04		1556743_at	IZ	1.79e-04
206807_s_at	IW	0.04		209572_s_at	IZ	1.8e-04
203935_at	IW	0.04		205094_at	IZ	1.91e-04
218583_s_at	IW	0.04		214421_x_at	IZ	1.98e-04
212271_at	IW	0.04		200664_s_at	IZ	1.99608e-04
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207791_s_at	IW	0.04		205571_at	IZ	2.06e-04
221120_at	IW	0.04		203925_at	IZ	2.13e-04
232953_at	IW	0.04		212918_at	IZ	2.14046e-04
229967_at	IW	0.04		219639_x_at	IZ	2.22e-04
221851_at	IW	0.04		203614_at	IZ	2.27e-04
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205640_at	IW	0.04		202241_at	IZ	2.52e-04
203846_at	IW	0.04		237426_at	IZ	2.67e-04
209514_s_at	IW	0.04		211063_s_at	IZ	2.67e-04

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222077_s_at	IZ	7.90028e-04	218319_at	IZ	1.253518e-03
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220113_x_at	IZ	1.30346e-03	226387_at	IZ	1.982286e-03
217902_s_at	IZ	1.317627e-03	239660_at	IZ	1.990437e-03
219343_at	IZ	1.322656e-03	222728_s_at	IZ	2.002722e-03
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221193_s_at	IZ	1.432713e-03	218534_s_at	IZ	2.152069e-03
218501_at	IZ	1.438985e-03	201612_at	IZ	2.166655e-03
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212227_x_at	IZ	1.447993e-03	213988_s_at	IZ	2.189441e-03
209662_at	IZ	1.479572e-03	215049_x_at	IZ	2.228316e-03
220302_at	IZ	1.483938e-03	213859_x_at	IZ	2.241121e-03
223697_x_at	IZ	1.491298e-03	236728_at	IZ	2.246637e-03
221778_at	IZ	1.500662e-03	203574_at	IZ	2.246813e-03
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209067_s_at	IZ	1.625819e-03	202568_s_at	IZ	2.432774e-03
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220918_at	IZ	1.700671e-03	204676_at	IZ	2.509755e-03
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224852_at	IZ	1.791723e-03	227268_at	IZ	2.550748e-03
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227223_at	IZ	1.820403e-03	218362_s_at	IZ	2.562549e-03
219913_s_at	IZ	1.822474e-03	202379_s_at	IZ	2.566484e-03
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205171_at	IZ	1.920214e-03	208130_s_at	IZ	2.631832e-03
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228512_at	IZ	2.822117e-03
200045_at	IZ	2.822746e-03
219133_at	IZ	2.839436e-03
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211102_s_at	IZ	2.975681e-03
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241672_at	IZ	3.093917e-03
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221432_s_at	IZ	3.222556e-03
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238642_at	IZ	3.259351e-03
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226163_at	IZ	3.282898e-03
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205452_at	IZ	3.637799e-03
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223413_s_at	IZ	3.672126e-03
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39313_at	IZ	4.135827e-03
209418_s_at	IZ	4.136447e-03
212295_s_at	IZ	4.143924e-03

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202122_s_at	IZ	4.200072e-03		209020_at	IZ	5.104024e-03
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218429_s_at	IZ	4.366756e-03		225859_at	IZ	5.121073e-03
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213940_s_at	IZ	4.432854e-03		226119_at	IZ	5.121073e-03
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213140_s_at	IZ	4.819265e-03		212629_s_at	IZ	5.121073e-03
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203302_at	IZ	4.839618e-03		213224_s_at	IZ	5.121073e-03
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203171_s_at	IZ	4.876815e-03		218130_at	IZ	5.121073e-03
215838_at	IZ	4.903187e-03		218354_at	IZ	5.121073e-03
204054_at	IZ	4.962922e-03		217547_x_at	IZ	5.121073e-03
204249_s_at	IZ	4.969251e-03		218437_s_at	IZ	5.121073e-03
208021_s_at	IZ	5.00929e-03		203513_at	IZ	5.121073e-03
207730_x_at	IZ	5.044982e-03		203624_at	IZ	5.121073e-03
205590_at	IZ	5.054257e-03		203743_s_at	IZ	5.121073e-03
208106_x_at	IZ	5.07781e-03		203900_at	IZ	5.121073e-03

1 03371 s at	IZ	5 2187Se-03		200667 at	IZ	5.304205e-03
203651 at	IZ	5.121073e-03		213622 at	IZ	5.343136e-03
204034 at	IZ	5.121073e-03		202611 s at	IZ	5.356838e-03
221696 s at	IZ	5.121073e-03		203611 at	IZ	5.388529e-03
222523 at	IZ	5.121073e-03		204117 at	IZ	5.453307e-03
221044 s at	IZ	5.121073e-03		218641 at	IZ	5.463189e-03
221499 s at	IZ	5.121073e-03		203575 at	IZ	5.468886e-03
222687 s at	IZ	5.121073e-03		202391 at	IZ	5.474672e-03
220746 s at	IZ	5.121073e-03		212369 at	IZ	5.482401e-03
222667 s at	IZ	5.121073e-03		218170 at	IZ	5.499196e-03
222721 at	IZ	5.121073e-03		223570 at	IZ	5.524012e-03
209579 s at	IZ	5.121073e-03		218363 at	IZ	5.530402e-03
212208 at	IZ	5.121073e-03		212381 at	IZ	5.533128e-03
210556 at	IZ	5.121073e-03		212855 at	IZ	5.534212e-03
211316 x at	IZ	5.121073e-03		209184 s at	IZ	5.54646e-03
212129 at	IZ	5.121073e-03		213743 at	IZ	5.551657e-03
212118 at	IZ	5.121073e-03		214048 at	IZ	5.561332e-03
202951 at	IZ	5.121073e-03		201519 at	IZ	5.584306e-03
202947 s at	IZ	5.121073e-03		202491 s at	IZ	5.612699e-03
203169 at	IZ	5.121073e-03		212502 at	IZ	5.640089e-03
203168 at	IZ	5.121073e-03		206177 s at	IZ	5.663295e-03
202034 x at	IZ	5.121073e-03		211395 x at	IZ	5.673718e-03
202104 s at	IZ	5.121073e-03		223792 at	IZ	5.69183e-03
202263 at	IZ	5.121073e-03		242470 at	IZ	5.69183e-03
205270 s at	IZ	5.121073e-03		236006 s at	IZ	5.69183e-03
205227 at	IZ	5.121073e-03		45288 at	IZ	5.69183e-03
206169 x at	IZ	5.121073e-03		235006 at	IZ	5.69183e-03
206993 at	IZ	5.121073e-03		220244 at	IZ	5.69183e-03
205370 x at	IZ	5.121073e-03		204706 Jlt	IZ	5.69183e-03
205546 s at	IZ	5.121073e-03		203554 x at	IZ	5.69183e-03
206586 at	IZ	5.121073e-03		203744 at	IZ	5.69183e-03
203137 x at	IZ	5.121073e-03		156082 [at	IZ	5.69183e-03
208854 s at	IZ	5.121073e-03		201027 s at	IZ	5.705293e-03
207713 s at	IZ	5.121073e-03		219008 jat	IZ	5.722771e-03
208933 s at	IZ	5.121073e-03		207224 s at	IZ	5.77258e-03
208916 at	IZ	5.121073e-03		201339 s at	IZ	5.836997e-03
208989 s at	IZ	5.121073e-03		217559 at	IZ	5.847506e-03
209165 at	IZ	5.121073e-03		203712 at	IZ	5.850904e-03
2.09352 s at	IZ	5.121073e-03		222082 at	IZ	5.887975e-03
1553955 at	IZ	5.121073e-03		216054 x at	IZ	5.936109e-03
1553165 at	IZ	5.121073e-03		212016 s at	IZ	5.978394e-03
1553252 a at	IZ	5.121073e-03		219342 at	IZ	6.011536e-03
1552930 at	IZ	5.121073e-03		218846 jat	IZ	6.026841e-03
1552644 a at	IZ	5.121073e-03		220684 at	IZ	6.069451e-03
1552942 at	IZ	5.121073e-03		210285 jx at	IZ	6.073946e-03
1553274 a at	IZ	5.121073e-03		209919 x at	IZ	6.083321e-03
1552343 s at	IZ	5.121073e-03		202860 at	IZ	6.087455e-03
1558111 at	IZ	5.121073e-03		202971 s at	IZ	6.101594e-03
1558956 s at	IZ	5.121073e-03		204847 jat	IZ	6.112154e-03
1554316 at	IZ	5.121073e-03		202184 s at	IZ	6.126137e-03
1553181 at	IZ	5.121073e-03		201889 at	IZ	6.138321e-03
1569385 s at	IZ	5.121073e-03		213291 s at	IZ	6.142072e-03
1553153 at	IZ	5.121073e-03		217985 s at	IZ	6.229436e-03
201191 at	IZ	5.121073e-03		208835 js at	IZ	6.241854e-03
201102 s at	IZ	5.121073e-03		212653 s at	IZ	6.255975e-03
201924 at	IZ	5.121073e-03		226452 at	IZ	6.278275e-03
201876 at	IZ	5.121073e-03		211997 x at	IZ	6.283404e-03
201736 s at	IZ	5.121073e-03		209884 s at	IZ	6.319999e-03
212709 at	IZ	5.175929e-03		208848 at	IZ	6.331215e-03
202069 s at	IZ	5.200955e-03		208702 x at	IZ	6.336101e-03
217957 at	IZ	5.201645e-03		202557 at	IZ	6.337914e-03
218924 s at	IZ	5.22465e-03		219635 at	IZ	6.34748e-03
219286 s at	IZ	5.289086e-03		203362 s at	IZ	6.367977e-03
207659 s at	IZ	5.296609e-03		202126 at	IZ	6.371623e-03

563

208184_s_at	IZ	6.383211e-03	206308_at	IZ	7.641517e-03
218492_s_at	IZ	6.448963e-03	38269_at	IZ	7.652561e-03
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212220_at	IZ	6.473123e-03	221492_s_at	IZ	7.665554e-03
53968_at	IZ	6.4813e-03	202642_s_at	IZ	7.673617e-03
219433_at	IZ	6.497476e-03	215667_x_at	IZ	7.729366e-03
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211366_x_at	IZ	6.518587e-03	212633_at	IZ	7.777373e-03
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213149_at	IZ	6.58698e-03	205541_s_at	IZ	7.833749e-03
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203337_x_at	IZ	6.592957e-03	212316_at	IZ	7.888124e-03
218594_at	IZ	6.602222e-03	202353_s_at	IZ	7.892509e-03
226828_s_at	IZ	6.602656e-03	221208_s_at	IZ	7.949252e-03
216061_x_at	IZ	6.602656e-03	212296_at	IZ	7.957642e-03
210504_at	IZ	6.602656e-03	209467_s_at	IZ	8.040074e-03
1569714_at	IZ	6.602656e-03	201395_at	IZ	8.05076e-03
1552348_at	IZ	6.602656e-03	218729_at	IZ	8.055149e-03
221139_s_at	IZ	6.625723e-03	202303_x_at	IZ	8.055567e-03
208442_s_at	IZ	6.642865e-03	238596_at	IZ	8.072063e-03
202014_at	IZ	6.644011e-03	201112_s_at	IZ	8.074821e-03
215629_s_at	IZ	6.689768e-03	221229_s_at	IZ	8.102024e-03
218152_at	IZ	6.704575e-03	218962_s_at	IZ	8.119328e-03
205961_s_at	IZ	6.740339e-03	206026_s_at	IZ	8.121969e-03
212360_at	IZ	6.747206e-03	208663_s_at	IZ	8.195111e-03
205078_at	IZ	6.761609e-03	217993_s_at	IZ	8.226399e-03
217835_x_at	IZ	6.765942e-03	220137_at	IZ	8.237354e-03
202537_s_at	IZ	6.771899e-03	219672_at	IZ	8.237354e-03
219870_at	IZ	6.8125e-03	215228_at	IZ	8.237354e-03
203481_at	IZ	6.825903e-03	203874_s_at	IZ	8.247063e-03
211164_at	IZ	6.843774e-03	209175_at	IZ	8.270219e-03
218882_s_at	IZ	6.869938e-03	201663_s_at	IZ	8.271555e-03
218189_s_at	IZ	β.886812e-03	204949_at	IZ	8.274121e-03
200783_s_at	IZ	6.897168e-03	1563455_at	IZ	8.283932e-03
202446_s_at	IZ	6.905551e-03	202742_s_at	IZ	8.285753e-03
211784_s_at	IZ	6.941774e-03	226333_at	IZ	8.300496e-03
208742_s_at	IZ	6.991595e-03	219862_s_at	IZ	8.303482e-03
202638_s_at	IZ	7.02205e-03	209585_s_at	IZ	8.339292e-03
200816_s_at	IZ	7.085565e-03	218771_at	IZ	8.341635e-03
219104_at	IZ	7.089021e-03	218017_s_at	IZ	8.358377e-03
208863_s_at	IZ	7.095036e-03	219017_at	1z	8.361549e-03
205068_s_at	IZ	7.105776e-03	218950_at	IZ	8.3968e-03
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219641_at	IZ	7.175e-03	217956_s_at	IZ	8.402161e-03
216397_s_at	IZ	7.205669e-03	212736_at	IZ	8.477454e-03
201591_s_at	IZ	7.218323e-03	201877_s_at	IZ	8.486664e-03
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207275_s_at	IZ	7.292338e-03	218104_at	IZ	8.522571e-03
227624_at	IZ	7.325827e-03	219544_at	IZ	8.524456e-03
228999_at	IZ	7.344552e-03	202458_at	IZ	8.535544e-03
201529_s_at	IZ	7.347162e-03	205198_s_at	IZ	8.540601e-03
204109_s_at	IZ	7.365785e-03	218214_at	IZ	8.557385e-03
235327_x_at	IZ	7.40456e-03	217167_x_at	IZ	8.574612e-03
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218535_s_at	IZ	0.03	212244_at	IZ	0.03
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574

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235338	_s_at	IZ	0.04	207618	_s_at	IZ	_0.04_
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219624	_at	IZ	0.04		221935	_s_at	3A	3.24e-05
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218639 _s _at	3B	2.178996e-03
217559 _at	3B	2.180534e-03
211784 _s _at	3B	2.221214e-03
244756 _at	3B	2.234825e-03
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236006 _s _at	3B	2.250142e-03
218831 _s _at	3B	2.25183e-03
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223446 _s _at	3B	2.262127e-03
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214428 _x _at	3B	2.323465e-03
218950 _at	3B	2.32911e-03
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211822	_s_at	3B	9.142439e-03	210389	_x_at	3B	0.01
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226711	_at	3B	9.274033e-03	220173	_at	3B	0.01
204615	_x_at	3B	9.366074e-03	221473	_x_at	3B	0.01
207857	_at	3B	9.389956e-03	204505	_s_at	3B	0.01
212457	_at	3B	9.399437e-03	210579	_s_at	3B	0.01
226334	_s_at	3B	9.406494e-03	212780	_at	3B	0.01
212495	_at	3B	9.41407e-03	242163	_at	3B	0.01
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212680_x_at	**3B**	**0.02**	219458_s_at	3B	0.02

Probe ID			Probe ID		
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222924_at	3B	0.02	1553186 _x_at	3B	0.02
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212267_at	3B	0.02	203203 _s_at	3B	0.02
1553709_a_at	3B	0.02	206564 _at	3B	0.02
209578__s_at	3B	0.02	209127 _s_at	3B	0.02
203519_s_at	3B	0.02	205511 _at	3B	0.02
37966_at	3B	0.02	211192 _s_at	3B	0.02
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222702_x_at	3B	0.02	223223 _at	3B	0.02
38710_at	3B	0.02	201433 _s_at	3B	0.02
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207168_s_at	3B	0.02	211404 _s_at	3B	0.02
218961_s_at	3B	0.02	205752 _s_at	3B	0.02
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234403_at	3B	0.02	226510 _at	3B	0.02
225049_at	3B	0.02	222803 _at	3B	0.02
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221749_at	3B	0.04	235327_x_at	3C	2.0e-06
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206792_x_at	3C	1.02e-06	219049_at	3C	1.51e-05
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243981 _at	3C	2.56e-05		213065 _at	3C	6.06e-05
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236621 _at	3C	2.74e-05		78047 _s_at	3C	6.27e-05
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236436 _at	3C	2.94e-05		208195 _at	3C	6.6e-05
219594 _at	3C	3.05e-05		214594 _x_at	3C	6.67e-05
210638 _s_at	3C	3.05e-05		206323 _x_at	3C	6.68e-05
209430 _at	3C	3.22e-05		219980 _at	3C	6.72e-05
209116 _x_at	3C	3.34e-05		213624 _at	3C	6.78e-05
203442 _x_at	3C	3.39e-05		202038 _at	3C	6.78e-05
201748 _s_at	3C	3.41e-05		207384 _at	3C	6.86e-05
209148 _at	3C	3.49e-05		212869 _x_at	3C	6.87e-05
206177 _s_at	3C	3.55e-05		219672 _at	3C	7.0e-05
201972 _at	3C	3.6e-05		1558111 _at	3C	7.04e-05
206676 _at	3C	3.61e-05		213671 _s_at	3C	7.06e-05
1553088 _a_at	3C	3.63e-05		220661 _s_at	3C	7.1e-05
204018 _x_at	3C	3.7e-05		208872 _s_at	3C	7.1e-05
234671 _at	3C	3.73e-05		208720 _s_at	3C	7.1e-05
204193 _at	3C	3.75e-05		202532 _s_at	3C	7.16e-05
226334 _s_at	3C	3.86e-05		200726 _at	3C	7.16e-05
218298 _s_at	3C	3.86e-05		200998 _s_at	3C	7.18e-05
205312 _at	3C	3.95e-05		214414 _x_at	3C	7.2e-05
207474 _at	3C	3.95e-05		211749 _s_at	3C	7.29e-05
213185 _at	3C	3.97e-05		202917 _s_at	3C	7.32e-05
200889 _s_at	3C	4.06e-05		217928 _s_at	3C	7.35e-05
207941 _s_at	3C	4.14e-05		208039 _at	3C	7.35e-05
202460 _s_at	3C	4.17e-05		207783 _x_at	3C	7.5e-05
202377 _at	3C	4.2e-05		201389 _at	3C	7.64e-05
212969 _x_at	3C	4.23e-05		224616 _at	3C	7.68e-05
223857 _x_at	3C	4.41e-05		220446 _s_at	3C	7.82e-05
203288 _at	3C	4.49e-05		213867 _x_at	3C	7.91e-05
207365 _x_at	3C	4.5e-05		225756 _at	3C	8.15e-05
218079 _s_at	3C	4.54e-05		201315 _x_at	3C	8.19e-05
201055 _s_at	3C	4.54e-05		205513 _at	3C	8.23e-05
225120 _at	3C	4.6e-05		207730 _x_at	3C	8.38e-05
214055 _x_at	3C	4.6e-05		226076 _s_at	3C	8.41e-05
202503 _s_at	3C	4.6e-05		219259 _at	3C	8.43e-05
200021 _at	3C	4.6e-05		208857 _s_at	3C	8.52e-05
203925 _at	3C	4.77e-05		1554455 _at	3C	8.52e-05
226091 _s_at	3C	4.89e-05		208943 _s_at	3C	8.55e-05
239740 _at	3C	4.89e-05		213622 _at	3C	8.62e-05
202957 _at	3C	4.93e-05		202951 _at	3C	8.8e-05
209619 _at	3C	4.97e-05		212661 _x_at	3C	8.88e-05
201221 _s_at	3C	5.12e-05		201475 _x_at	3C	8.88e-05
211745 _x_at	3C	5.18e-05		235479 _at	3C	8.96e-05

208835_s_at	3C	9.96e-05
201582_at	3C	8.96e-05
202057_at	3C	9.05e-05
200801_x_at	3C	9.07e-05
235816_s_at	3C	9.14e-05
215336_at	3C	9.41e-05
220933_s_at	3C	9.51e-05
211696_x_at	3C	9.53e-05
210142_x_at	3C	9.59e-05
201136_at	3C	9.62e-05
202880_s_at	3C	9.73e-05
221858_at	3C	9.74e-05
212024_x_at	3C	9.78e-05
201554_x_at	3C	9.79e-05
242048_at	3C	1.02e-04
220034_at	3C	1.03e-04
209140_x_at	3C	1.03e-04
214938_x_at	3C	1.04e-04
204692_at	3C	1.04e-04
201369_s_at	3C	1.04e-04
203107_x_at	3C	1.06e-04
201891]_s_at	3C	1.06e-04
219549_s_at	3C	1.07e-04
214135_at	3C	1.08e-04
225563_at	3C	1.09e-04
225218_at	3C	1.09e-04
222605_at	3C	1.09e-04
209514_s_at	3C	1.09e-04
212706_at	3C	1.1e-04
216526_x_at	3C	1.1e-04
204164_at	3C	1.1e-04
203729_at	3C	1.1e-04
224561_s_at	3C	1.12e-04
203839_s_at	3C	1.12e-04
225406_at	3C	1.13e-04
218614_at	3C	1.13e-04
218310_at	3C	1.14e-04
217232_x_at	3C	1.15e-04
210962_s_at	3C	1.15e-04
227811_at	3C	1.16e-04
224585_x_at	3C	1.16e-04
218941_at	3C	1.21e-04
207269_at	3C	1.23e-04
208174_x_at	3C	1.23e-04
208812_x_at	3C	1.23e-04
201805_at	3C	1.26e-04
219186_at	3C	1.28e-04
212576_at	3C	1.28e-04
204038_s_at	3C	1.28e-04
221511_x_at	3C	1.28e-04
200797_s_at	3C	1.28e-04
204714_s_at	3C	1.3e-04
203370_s_at	3C	1.3e-04
211504_x_at	3C	1.31e-04
202624_s_at	3C	1.33e-04
219678_x_at	3C	1.34e-04
218905_at	3C	1.35e-04
212988_x_at	3C	1.35e-04
207064_s_at	3C	1.38e-04
206834_at	3C	1.42e-04
208919_s_at	3C	1.45e-04
208749_x_at	3C	1.46e-04
231922_at	3C	1.48e-04
216231_s_at	3C	1.48e-04
1570033_at	3C	1.48e-04
225649_s_at	3C	1.5e-04
227467_at	3C	1.51e-04
211995_x_at	3C	1.53e-04
227233_at	3C	1.55e-04
236254_at	3C	1.56e-04
201395_at	3C	1.56e-04
203198_at	3C	1.57e-04
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225508_at	3C	1.59e-04
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222217_s_at	3C	1.61e-04
200031_s_at	3C	1.61e-04
225374_at	3C	1.63e-04
211742_s_at	3C	1.63e-04
205863_at	3C	1.63e-04
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221619_s_at	3C	1.67e-04
32259_at	3C	1.68e-04
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218776_s_at	3C	1.69e-04
212542_s_at	3C	1.69e-04
209252_at	3C	1.69e-04
207671_s_at	3C	1.7e-04
217817_at	3C	1.71e-04
206209_s_at	3C	1.71e-04
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232946_s_at	3C	1.72e-04
218595_s_at	3C	1.72e-04
211657_at	3C	1.72e-04
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74694_s_at	3C	1.8e-04
210858_x_at	3C	1.81e-04
220238_s_at	3C	1.84e-04
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203282_at	3C	1.86e-04
1553569_at	3C	1.87e-04
201492_s_at	3C	1.87e-04
221208_s_at	3C	1.88e-04
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206257_at	3C	1.91e-04
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224250_s_at	3C	1.99e-04
37652_at	3C	2.0e-04
213280_at	3C	2.01e-04
208610_s_at	3C	2.01e-04
1552553_a_at	3C	2.01e-04
218600_at	3C	2.03e-04
202107_s_at	3C	2.04e-04
203535_at	3C	2.09e-04
218039_at	3C	2.11e-04
201071_x_at	3C	2.11e-04
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215832_x_at	3C	2.15e-04
227905_s_at	3C	2.16e-04
211883_x_at	3C	2.16e-04
200059_s_at	3C	2.16e-04
206790_s_at	3C	2.17e-04
201903_at	3C	2.17e-04
210186_s_at	3C	2.21e-04
203752_s_at	3C	2.22e-04
202388_at	3C	2.22e-04
202902_s_at	3C	2.22e-04

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211275_s_at	3C	2.32e-04	223097_at	3C	3.35e-04
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214523_at	3C	2.37e-04	202681_at	3C	3.37e-04
202548_s_at	3C	2.38e-04	AFFX-HSAC07/		
202379_s_at	3C	2.38e-04	X00351_M	3C	3.38e-04
210556_at	3C	2.4e-04	200763_s_at	3C	3.41e-04
205068_s_at	3C	2.4e-04	220408_x_at	3C	3.42e-04
220949_s_at	3C	2.41e-04	204192_at	3C	3.42e-04
201721_s_at	3C	2.41e-04	203459_s_at	3C	3.45e-04
221804_s_at	3C	2.43e-04	201356_at	3C	3.45e-04
210069_at	3C	2.43e-04	209512_at	3C	3.47e-04
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209806_at	3C	2.45e-04	211040_x_at	3C	3.49e-04
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212307_s_at	3C	2.49e-04	204633_s_at	3C	3.65e-04
205554_s_at	3C	2.49e-04	209906_at	3C	3.66e-04
225640_at	3C	2.5e-04	203006_at	3C	3.66e-04
209762_x_at	3C	2.5e-04	1553588_at	3C	3.66e-04
225247_at	3C	2.51e-04	1554670_at	3C	3.67e-04
218265_at	3C	2.52e-04	222667_s_at	3C	3.68e-04
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204959_at	3C	2.53e-04	32099_at	3C	3.72e-04
203502_at	3C	2.54e-04	237426_at	3C	3.72e-04
221580_s_at	3C	2.54e-04	212733_at	3C	3.72e-04
1554892_a_at	3C	2.56e-04	222435_s_at	3C	3.72e-04
213515_x_at	3C	2.6e-04	200791_s_at	3C	3.72e-04
218578_at	3C	2.63e-04	202545_at	3C	3.78e-O4
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36030_at	3C	2.81e-04	221875_x_at	3C	3.93e-04
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219797_at	3C	2.88e-04	213051_at	3C	3.94e-04
213198_at	3C	2.91e-04	209007_s_at	3C	3.94e-04
38710_at	3C	2.92e-04	211997_x_at	3C	3.97e-04
203523_at	3C	2.92e-04	204039_at	3C	3.99e-O4
220467_at	3C	2.96e-04	40149_at	3C	4.01e-04
206240_s_at	3C	2.98e-04	205550_s_at	3C	4.04e-04
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37028_at	3C	3.0e-04	204026_s_at	3C	4.09e-04
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219156_at	3C	3.02e-04	209234_at	3C	4.13e-04
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229872_s_at	3C	3.1e-04	218873_at	3C	4.19e-04
210004_at	3C	3.11e-04	201288_at	3C	4.21e-04
225250_at	3C	3.16e-04	201118_at	3C	4.24e-04
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218231_at	3C	3.16e-04	211940_x_at	3C	4.3e-04
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238593_at	3C	3.22e-04	235568_at	3C	4.41e-04
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208486_at	3C	3.22e-04	1552347_at	3C	4.44e-04

210128_s_at	3C	4.5e-04
209236_at	3C	4.55e-04
212159_x_at	3C	4.61e-04
211185_s_at	3C	4.61e-04
232520_s_at	3C	4.62e-04
218192_at	3C	4.62e-04
222442_s_at	3C	4.62e-04
222825_at	3C	4.64e-04
207081_s_at	3C	4.68e-04
225251_at	3C	4.7e-04
222156_x_at	3C	4.7e-04
220881_at	3C	4.7e-04
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211581_x_at	3C	4.84e-04
205237_at	3C	4.84e-04
227207_x_at	3C	4.85e-04
212271_at	3C	4.85e-04
217733_s_at	3C	4.9e-04
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222447_at	3C	4.94e-04
212015_x_at	3C	4.98e-04
219457_s_at	3C	5.01e-04
223993_s_at	3C	5.02e-04
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209771_x_at	3C	5.28e-04
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225289_at	3C	5.5e-04
225830_at	3C	5.53e-04
200863_s_at	3C	5.54e-04
205142_x_at	3C	5.58e-04
219281_at	3C	5.68e-04
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1554510_s_at	3C	5.88e-04
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221790_s_at	3C	6.21e-04
1554624_a_at	3C	6.21e-04
208632_at	3C	6.25e-04
222432_s_at	3C	6.31e-04
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227236_at	3C	6.32e-04
226544_x_at	3C	6.32e-04
206302_s_at	3C	6.32e-04
208904_s_at	3C	6.32e-04
204526_s_at	3C	6.43e-04
218456_at	3C	6.44e-04
204419_x_at	3C	6.44e-04
1569206_at	3C	6.47e-04
212259_s_at	3C	6.48e-04
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204211_x_at	3C	6.55e-04
208642_s_at	3C	6.58e-04
212330_at	3C	6.62e-04
213084_x_at	3C	6.68e-04
203012_x_at	3C	6.68e-04
204563_at	3C	6.73e-04
219403_s_at	3C	6.76e-04
266_s_at	3C	6.77e-04
215089_s_at	3C	6.77e-04
217918_at	3C	6.81e-04
202478_at	3C	6.81e-04
218290_at	3C	6.85e-04
203514_at	3C	6.85e-04
218639_s_at	3C	6.87e-04
214953_s_at	3C	6.87e-04
222133_s_at	3C	6.87e-04
201232_s_at	3C	6.87e-04
221698_s_at	3C	6.93e-04
202477_s_at	3C	6.95e-04
224873_s_at	3C	6.96e-04
225282_at	3C	6.97e-04
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201094_at	3C	6.97e-04
221484_at	3C	7.08e-04
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210951_x_at	3C	7.08e-04
203116_s_at	3C	7.1e-04
235067_at	3C	7.11e-04
218060_s_at	3C	7.11e-04
226050_at	3C	7.13e-04
212460_at	3C	7.13e-04
209369_at	3C	7.13e-04
215313_x_at	3C	7.17e-04
202096_s_at	3C	7.29e-04
205627_at	3C	7.32e-04
206656_s_at	3C	7.34e-04
233929_x_at	3C	7.36e-04
201082_s_at	3C	7.37e-04
228999_at	3C	7.39e-04
239761_at	3C	7.41e-04
214550_s_at	3C	7.47e-04
212329_at	3C	7.54e-04
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213646 _x_at	3C	5.708616e-03	
204019 _s_at	3C	5.736321e-03	
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212557 _at	3C	5.753274e-03	
227540 _at	3C	5.767802e-03	
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201345 _s_at	3C	5.767802e-03	
213974 _at	3C	5.799827e-03	
225228 _at	3C	5.813331e-03	
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211417 _x_at	3C	5.843743e-03	
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242056 _at	3C	5.852812e-03	
33304 _at	3C	5.862908e-03	
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208684 _at	3C	5.976821e-03	
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223256 _at	3C	5.986086e-03	
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214112 _s_at	3C	6.114241e-03	
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227075 _at	3C	6.127985e-03	
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231716	_a t	3C	6.265485e-03	207624	_s_at	3C	7.181062e-03
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214298	_x_at	3C	6.32897e-03	202746	_at	3C	7.19883e-03
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213538	_at	3C	6.385882e-03	221264	_s_at	3C	7.239116e-03
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224866	_at	3C	6.424518e-03	225994	_at	3C	7.243468e-03
210162	_s_at	3C	6.426373e-03	230619	_at	3C	7.245961e-03
222590	_s_at	3C	6.446753e-03	207700	_s_at	3C	7.2917e-03
217748	_at	3C	6.452432e-03	218662	_s_at	3C	7.315094e-03
223387	_at	3C	6.453849e-03	200859	_x_at	3C	7.320574e-03
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206704	_at	3C	6.478947e-03	218052	_s_at	3C	7.358954e-03
217908	_s_at	3C	6.494512e-03	226122	_at	3C	7.368295e-03
204034	_at	3C	6.494512e-03	217913	_at	3C	7.372494e-03
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202076	_at	3C	6.547021e-03	202140	_s_at	3C	7.378662e-03
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208779	_x_at	3C	6.568892e-03	231252	_at	3C	7.409842e-03
213480	_at	3C	6.576687e-03	206150	_at	3C	7.434438e-03
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227485	_at	3C	6.660119e-03	211783	_s_at	3C	7.507103e-03
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225071	_at	3C	6.71636e-03	228291	_s_at	3C	7.522184e-03
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209344	_at	3C	6.732151e-03	213073	_at	3C	7.529728e-03
223060	_at	3C	6.787672e-03	200062	_s_at	3C	7.529728e-03
205718	_at	3C	6.803869e-03	203136	_at	3C	7.534025e-03
217810	_x_at	3C	6.808959e-03	212594	_at	3C	7.620957e-03
203435	_s_at	3C	6.829224e-03	217902	_s_at	3C	7.626049e-03
221601	_s_at	3C	6.829224e-03	210396	_s_at	3C	7.62691e-03
222721	_at	3C	6.84544e-03	207969	_x_at	3C	7.630853e-03
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233970	_s_at	3C	6.863824e-03	212055	_at	3C	7.668273e-03
222462	_s_at	3C	6.916879e-03	223434	_at	3C	7.680539e-03
225610	_at	3C	6.92511e-03	208351	_s_at	3C	7.680539e-03
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242807	_at	3C	6.932673e-03	201853	_s_at	3C	7.741985e-03
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204882	_at	3C	6.953964e-03	208763	_s_at	3C	7.805975e-03
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223454	_at	3C	7.03782e-03	209282	_at	3C	7.816075e-03
202446	_s_at	3C	7.03782e-03	218520	_at	3C	7.847678e-03
207205	_at	3C	7.053448e-03	1552463	_at	3C	7.862796e-03
207654	_x_at	3C	7.053448e-03	225984	_at	3C	7.867035e-03
213988	_s_at	3C	7.06311e-03	225629	_s_at	3C	7.867035e-03
1559964	_at	3C	7.078481e-03	224833	_at	3C	7.867035e-03
215629	_s_at	3C	7.09905e-03	203085	_s_at	3C	7.874894e-03
203547	_at	3C	7.09905e-03	202665	_s_at	3C	7.886199e-03
218807	_at	3C	7.107909e-03	207765	_s_at	3C	7.909036e-03
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213775	_x_at	3C	7.168062e-03	208887	_at	3C	7.916934e-03

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201479_at	3C	7.916934e-03
208997_s_at	3C	7.924662e-03
218111_s_at	3C	7.931696e-03
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236007_at	3C	8.019198e-03
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234423_x_at	3C	8.390616e-03
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201500_s_at	3C	9.547318e-03
204159_at	3C	9.55968e-03
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210"64 5"s-kr ⁹₃-c ⁹ᵥᴮ33434e-03			209537_at	3C	0.01		
1554021 _a_at	3C	9.833434e-03	226968_at	3C	0.01		
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209273 _s_at	3C	0.01	228139_at	3C	0.01		
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214855 _s_at	3C	0.01	202771_at	3C	0.01		
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221080 _s_at	3C	0.01	218627_at	3C	0.01		
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221011 _s_at	3C	0.01	209345_s_at	3C	0.01		
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223009 _at	3C	0.01		219228 _at	3C	0.01
203206 _at	3C	0.01		38447 _at	3C	0.01
55093 _at	3C	0.01		210438 _x_at	3C	0.01
221604 _s_at	3C	0.01		201191 _at	3C	0.01
218806 _s_at	3C	0.01		53202 _at	3C	0.01
204215 _at	3C	0.01		223301 _s_at	3C	0.01
225246 _at	3C	0.01		211710 _x_at	3C	0.01
220990 _s_at	3C	0.01		202227 _s_at	3C	0.01
200730 _s_at	3C	0.01		226599 __at	3C	0.01
212139 _at	3C	0.01		200920 _s_at	3C	0.01
225717 _at	3C	0.01		1553575 _at	3C	0.01
204212 _at	3C	0.01		1552667 _a_at	3C	0.01
206548 _at	3C	0.01		217526 _at	3C	0.01
225198 _at	3C	0.01		227430 _at	3C	0.01
209250 _at	3C	0.01		224600 _at	3C	0.01
204171 _at	3C	0.01		212774 _at	3C	0.01
223078 _s_at	3C	0.01		201368 _at	3C	0.01
208694 _at	3C	0.01		213526 _s_at	3C	0.01
223743 _s_at	3C	0.01		203041 _s_at	3C	0.01
223033 _s_at	3C	0.01		204407 _at	3C	0.01
212752 _at	3C	0.01		233924 _s_at	3C	0.01
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218217 _at	3C	0.01		201241 _at	3C	0.01
229903 _x_at	3C	0.01		205033 _s_at	3C	0.01
209331 _s_at	3C	0.01		203445 _s_at	3C	0.01
211307 _s_at	3C	0.01		205684 _s_at	3C	0.01
1552316 _a_at	3C	0.01		225764 _at	3C	0.01
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210992 _x_at	3C	0.01		218285 _s_at	3C	0.01
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1555947 _at	3C	0.01		217106 _x_at	3C	0.01
215236 _s_at	3C	0.01		202832 _at	3C	0.01
200035 _at	3C	0.01		208308 _s_at	3C	0.01
208459 _s_at	3C	0.01		212646 _at	3C	0.01
205416 _s_at	3C	0.01		207079 _s_at	3C	0.01
39248 _at	3C	0.01		200862 _at	3C	0.01
205788 _s_at	3C	0.01		213557 _at	3C	0.01
200000 _s_at	3C	0.01		207842 _s_at	3C	0.01
213795 _s_at	3C	0.01		200674 _s_at	3C	0.01
204949 _at	3C	0.01		219066 _at	3C	0.01
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202277 _at	3C	0.01		201298 's_at	3C	0.01
212355 _at	3C	0.01		203055 _s_at	3C	0.01
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221952 _x_at	3C	0.01		213262 _at	3C	0.01
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213046 _at	3C	0.01		207556 _s_at	3C	0.01
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203776 _at	3C	0.01		219070 _s_at	3C	0.01
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21bb31_3_at	3C	0.01		212469 _at	3C	0.01
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225117 _at	3C	0.01		212513 _s_at	3C	0.01
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208896 _at	3C	0.01		207691 _x_at	3C	0.01
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218746 _at	3C	0.01		219994 _at	3C	0.01
222923 _s_at	3C	0.01		225573 _at	3C	0.01
202136 _at	3C	0.01		203375 _s_at	3C	0.01
L57620_a_at	3C	0.01		212144 _at	3C	0.01
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217754 _at	3C	0.01		203853 _s_at	3C	0.01
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202692 _s_at	3C	0.01		220646 _s_at	3C	0.01
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212931 _at	3C	0.01		208662 _s_at	3C	0.01
203313 _s_at	3C	0.01		211075 _s_at	3C	0.01
203239 _s_at	3C	0.01		221905 _at	3C	0.01
224760 _at	3C	0.01		206337 _at	3C	0.01
225090 _at	3C	0.01		228170 _at	3C	0.01
212270 _x_at	3C	0.01		1554800 _at	3C	0.01

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201957 at	3C	0.01
220853 at	3C	0.01
1555411 a at	3C	0.01
205504 at	3C	0.01
32811 at	3C	0.01
216100 s at	3C	0.01
215493 x at	3C	0.01
228749 at	3C	0.01
220368 s at	3C	0.01
204751 x at	3C	0.01
220306 at	3C	0.01
211941 s at	3C	0.01
209943 at	3C	0.01
216205 s at	3C	0.01
210427 x at	3C	0.01
222875 at	3C	0.01
208858 s at	3C	0.01
223096 at	3C	0.01
200840 at	3C	0.01
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212229 s at	3C	0.01
210982 s at	3C	0.01
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202058 s at	3C	0.01
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233933 s at	3C	0.01
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1570585 at	3C	0.01
202634 at	3C	0.01
204891 s at	3C	0.01
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91816 f at	3C	0.01
205760 s at	3C	0.01
216950 s at	3C	0.01
200961 at	3C	0.01
209211 at	3C	0.01
226794 at	3C	0.01
226584 s at	3C	0.01
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215452 x at	3C	0.01
221988 at	3C	0.01
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204837 at	3C	0.01
202697 at	3C	0.01
217286 s at	3C	0.01
208875 s at	3C	0.01
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202543 s at	3C	0.01
200615 s at	3C	0.01
214060 at	3C	0.01

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233230 s at	3C	0.01
203373 at	3C	0.01
220202 s at	3C	0.01
221492 s at	3C	0.01
1553099 at	3C	0.01
219378 at	3C	0.01
224920 x at	3C	0.01
201542 at	3C	0.01
218284 at	3C	0.01
214042 s at	3C	0.01
200766 at	3C	0.01
203419 at	3C	0.01
212794 s at	3C	0.01
209647 s at	3C	0.01
242760 x at	3C	0.01
218764 at	3C	0.01
218043 s at	3C	0.01
207323 s at	3C	0.01
218517 at	3C	0.01
201620 at	3C	0.01
200847 s at	3C	0.01
201217 x at	3C	0.01
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201875 s at	3C	0.01
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203276 at	3C	0.01
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202642 s at	3C	0.01
218280 x at	3C	0.01
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238722 x at	3C	0.01
218972 at	3C	0.01
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222980 at	3C	0.02
201084 s at	3C	0.02
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220746 s at	3C	0.02
200896 x at	3C	0.02
216218 s at	3C	0.02
212500 at	3C	0.02
212204 at	3C	0.02
202775 s at	3C	0.02
229686 at	3C	0.02
208984 x at	3C	0.02
202086 at	3C	0.02
225370 at	3C	0.02
212596 s at	3C	0.02
212250 at	3C	0.02
211951 at	3C	0.02
1564974 at	3C	0.02
208223 s at	3C	0.02
204689 at	3C	0.02
201180 s at	3C	0.02
219304 s at	3C	0.02
212129 at	3C	0.02
212591 at	3C	0.02
209678 s at	3C	0.02
21928β s at	3C	0.02
201625 s at	3C	0.02

2£o07	9 _at	3d	y.02		228690	_s_at	3C	0.02
204125	_at	3C	0.02		208634	_s_at	3C	0.02
220035	_at	3C	0.02		1552978	_a_at	3C	0.02
221724	_s_at	3C	0.02		205248	_at	3C	0.02
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201725	_at	3C	0.02		225346	_at	3C	0.02
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217842	_at	3C	0.02		223266	_at	3C	0.02
212537	_x_at	3C	0.02		210912	_x_at	3C	0.02
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225945	_at	3C	0.02		219571	_s_at	3C	0.02
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218734	_at	3C	0.02		201561	_s_at	3C	0.02
204172	_at	3C	0.02		214617	_at	3C	0.02
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2272"6	_at	3C	0.02		206976	_s_at	3C	0.02
211559	_s_at	3C	0.02		232001	_at	3C	0.02
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226711	_at	3C	0.02		208767	_s_at	3C	0.02
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231973	_s_at	3C	0.02		232914	_s_at	3C	0.02
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34210	_at	3C	0.02		218940	_at	3C	0.02
209150	_s_at	3C	0.02		212310	_at	3C	0.02
220078	_at	3C	0.02		227740	_at	3C	0.02
222634	_s_at	3C	0.02		231876	_at	3C	0.02
205495	_s_at	3C	0.02		202635	_s_at	3C	0.02
204500	_s_at	3C	0.02		223947	_s_at	3C	0.02
204197	_s_at	3C	0.02		221569	_at	3C	0.02
205230	_at	3C	0.02		225243	_s_at	3C	0.02
202378	_s_at	3C	0.02		212020	_s_at	3C	0.02
32032	_at	3C	0.02		225925	_s_at	3C	0.02

Probe				Probe		
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224856 _at	3C	0.02		218527 _at	3C	0.02
222887 _s_at	3C	0.02		1555241 _at	3C	0.02
200759 _x_at	3C	0.02		205471 _s_at	3C	0.02
202630 _at	3C	0.02		223442 _at	3C	0.02
200809 _x_at	3C	0.02		204351 _at	3C	0.02
208152 _s_at	3C	0.02		209798 _at	3C	0.02
219538 _at	3C	0.02		225965 _at	3C	0.02
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225065 _x_at	3C	0.02		201037 _at	3C	0.02
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236846 _at	3C	0.02		203566 _s_at	3C	0.02
200990 _at	3C	0.02		1555613 _a_at	3C	0.02
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209474 _s_at	3C	0.02		202948 _at	3C	0.02
203133 _at	3C	0.02		203814 _s_at	3C	0.02
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202529 _at	3C	0.02		225392 _at	3C	0.02
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212661 _x_at	3D	8.88e-05
201475 _x_at	3D	8.88e-05
235479 _[at	3D	8.96e-05
208835 _s_at	3D	8.96e-05
201582 _at	3D	8.96e-05
202057 _[at	3D	9.05e-05
200801 _x_at	3D	9.07e-05
235816 _[s_at	3D	9.14e-05
217728 _at	3D	9.23e-05
215336 _at	3D	9.41e-05
220933 _s_at	3D	9.51e-05
211696 _x_at	3D	9.53e-05
210142 _x_at	3D	9.59e-05
201136 _at	3D	9.62e-05
212024 _x_at	3D	9.78e-05
201554 _x_at	3D	9.79e-05
242048 _at	3D	1.02e-04
36994 _at	3D	1.03e-04
220034 _at	3D	1.03e-04
209140 _x_at	3D	1.03e-04
214938 _x_at	3D	1.04e-04
201369 _s_at	3D	1.04e-04
203107 _x_at	3D	1.06e-04
201891 _s_at	3D	1.06e-04
219549 _s_at	3D	1.07e-04
214135 _at	3D	1.08e-04
225218 _at	3D	1.09e-04
225563 _at	3D	1.09e-04
222605 _at	3D	1.09e-04
209514 _s_at	3D	1.09e-04
212706 _at	3D	1.1e-04
216526 _x_at	3D	1.1e-04
203729 _at	3D	1.1e-04
204164 _at	3D	1.1e-04
224561 _s_at	3D	1.12e-04
203839 _s_at	3D	1.12e-04
225406 _at	3D	1.13e-04
218614 _at	3D	1.13e-04
218310 _at	3D	1.14e-04
217232 _x_at	3D	1.15e-04
210962 _s_at	3D	1.15e-04
227811 _at	3D	1.16e-04
224585 _x_at	3D	1.16e-04
218941 _at	3D	1.21e-04
207269 _at	3D	1.23e-04
208812 _x_at	3D	1.23e-04
208174 _x_at	3D	1.23e-04
201805 _at	3D	1.26e-04
212576 _at	3D	1.28e-04
204038 _s_at	3D	1.28e-04
221511 _x_at	3D	1.28e-04
200797] _s_at	3D	1.28e-04
204714 _s_at	3D	1.3e-04
203370 _s_at	3D	1.3e-04
211504 _x_at	3D	1.31e-04
202624 _s_at	3D	1.33e-04
212988 _x_at	3D	1.35e-04
206834 _at	3D	1.42e-04
208919 _s_at	3D	1.45e-04

Probe		Value	Probe		Value
2018749 _x_at	3D	1.46e-04	202607 _at	3D	2.21e-04
231922 _at	3D	1.48e-04	203752 _s_at	3D	2.22e-04
216231 _s_at	3D	1.48e-04	202388 _at	3D	2.22e-04
1570033 _at	3D	1.48e-04	202902 _s_at	3D	2.22e-04
225649 _s_at	3D	1.5e-04	208695 _s_at	3D	2.22e-04
227467 _at	3D	1.51e-04	200663 _at	3D	2.26e-04
211995 _x_at	3D	1.53e-04	209773 _s_at	3D	2.3e-04
227233 _at	3D	1.55e-04	211275 _s_at	3D	2.32e-04
201395 _at	3D	1.56e-04	205557 _at	3D	2.33e-04
202573 _at	3D	1.57e-04	214523 _at	3D	2.37e-04
203198 _at	3D	1.57e-04	202379 _s_at	3D	2.38e-04
203455 _s_at	3D	1.59e-04	210556 _at	3D	2.4e-04
AFFX-HUMGAPDH/ M33197	3D	1.6e-04	205068 _s_at	3D	2.4e-04
200650 _s_at	3D	1.6e-04	220949 _s_at	3D	2.41e-04
222217 _s_at	3D	1.61e-04	201721 _s_at	3D	2.41e-04
200031 _s_at	3D	1.61e-04	221804 _s_at	3D	2.43e-04
225374 _at	3D	1.63e-04	201605 _x_at	3D	2.44e-04
211742 _s_at	3D	1.63e-04	209806 _at	3D	2.45e-04
205863 _at	3D	1.63e-04	202187 _s_at	3D	2.45e-04
213453 _x_at	3D	1.65e-04	202682 _s_at	3D	2.45e-04
219371 _s_at	3D	1.66e-04	219033 _at	3D	2.46e-04
221619 _s_at	3D	1.67e-04	203318 _s_at	3D	2.46e-04
32259 _at	3D	1.68e-04	212307 _s_at	3D	2.49e-04
218776 _s_at	3D	1.69e-04	205554 _s_at	3D	2.49e-04
205865 _at	3D	1.69e-04	225640 _at	3D	2.5e-04
217817 _at	3D	1.71e-04	209762 _x_at	3D	2.5e-04
206209 _s_at	3D	1.71e-04	200077 _s_at	3D	2.52e-04
232946 _s_at	3D	1.72e-04	204959 _at	3D	2.53e-04
37796 _at	3D	1.72e-04	203502 _at	3D	2.54e-04
218595 _s_at	3D	1.72e-04	1554892 _a_at	3D	2.56e-04
211657 _at	3D	1.72e-04	213515 _x_at	3D	2.6e-04
219359 _at	3D	1.73e-04	218578 _at	3D	2.63e-04
74694 _s_at	3D	1.8e-04	203110 _at	3D	2.67e-04
210858 _x_at	3D	1.81e-04	160020 _at	3D	2.69e-04
220238 _s_at	3D	1.84e-04	203254 _s_at	3D	2.7e-04
213034 _at	3D	1.85e-04	212222 _at	3D	2.73e-04
203282 _at	3D	1.86e-04	202990 _at	3D	2.83e-04
1553569 _at	3D	1.87e-04	219797 _at	3D	2.88e-04
201492 _s_at	3D	1.87e-04	213198 _at	3D	2.91e-04
221208 _s_at	3D	1.88e-04	38710 _at	3D	2.92e-04
202466 _at	3D	1.88e-04	203523 _at	3D	2.92e-04
206257 _at	3D	1.91e-04	1554503 _a_at	3D	2.98e-04
208651 _x_at	3D	1.94e-04	220416 _at	3D	2.99e-04
224250 _s_at	3D	1.99e-04	37028 _at	3D	3.0e-04
37652 _at	3D	2.0e-04	207801 _s_at	3D	3.01e-04
213280 _at	3D	2.01e-04	219156 _at	3D	3.02e-04
1552553 _a_at	3D	2.01e-04	221474 _at	3D	3.07e-04
218600 _at	3D	2.03e-04	200985 _s_at	3D	3.07e-04
202107 _s_at	3D	2.04e-04	210004 _at	3D	3.11e-04
201576 _s_at	3D	2.08e-04	212203 _x_at	3D	3.11e-04
203535 _at	3D	2.09e-04	225250 _at	3D	3.16e-04
227094 _at	3D	2.1e-04	214084 _x_at	3D	3.16e-04
218039 _at	3D	2.11e-04	218231 _at	3D	3.16e-04
201071 _x_at	3D	2.11e-04	205400 _at	3D	3.16e-04
203034 _s_at	3D	2.12e-04	208898 _at	3D	3.16e-04
218599 _at	3D	2.13e-04	221269 _s_at	3D	3.18e-04
215832 _x_at	3D	2.15e-04	1557915 _s_at	3D	3.18e-04
227905 _s_at	3D	2.16e-04	200905 _x_at	3D	3.18e-04
211883 _x_at	3D	2.16e-04	213119 _at	3D	3.21e-04
200059 _s_at	3D	2.16e-04	238593 _at	3D	3.22e-04
206790 _s_at	3D	2.17e-04	202431 _s_at	3D	3.22e-04
201903 _at	3D	2.17e-04	208486 _at	3D	3.22e-04
210186 _s_at	3D	2.21e-04	225294 _s_at	3D	3.3e-04
			218950 _at	3D	3.3e-04

12309f_at	3D	3.35e-04
208012_x_at	3D	3.35e-04
202681_at	3D	3.37e-04
AFFX-HSAC07/		
X00351_M	3D	3.38e-04
200763_s_at	3D	3.41e-04
220408_x_at	3D	3.42e-04
204192_at	3D	3.42e-04
203459_s_at	3D	3.45e-04
201356_at	3D	3.45e-04
209512_at	3D	3.47e-04
216993_s_at	3D	3.48e-04
211779_x_at	3D	3.49e-04
211040_x_at	3D	3.49e-04
202910_s_at	3D	3.57e-04
226177_at	3D	3.58e-04
207674_at	3D	3.58e-04
213341_at	3D	3.64e-04
204633_s_at	3D	3.65e-04
209906_at	3D	3.66e-04
203006_at	3D	3.66e-04
1553588_at	3D	3.66e-04
1554670_at	3D	3.67e-04
202426_s_at	3D	3.7e-04
202499_s_at	3D	3.7e-04
222435_s_at	3D	3.72e-04
200791_s_at	3D	3.72e-04
202545_at	3D	3.78e-04
220615_s_at	3D	3.84e-04
201357_s_at	3D	3.88e-04
201716_at	3D	3.89e-04
217732_s_at	3D	3.9e-04
221547_at	3D	3.91e-04
205255_x_at	3D	3.91e-04
220956_s_at	3D	3.93e-04
221875_x_at	3D	3.93e-04
213051_at	3D	3.94e-04
209007_s_at	3D	3.94e-04
211997_x_at	3D	3.97e-04
207243_s_at	3D	3.97e-04
204039_at	3D	3.99e-04
40149_at	3D	4.01e-04
205550_s_at	3D	4.04e-04
204026_s_at	3D	4.09e-04
1553594_a_at	3D	4.09e-04
203922_s_at	3D	4.11e-04
209234_at	3D	4.13e-04
211983_x_at	3D	4.15e-04
218873_at	3D	4.19e-04
201288_at	3D	4.21e-04
201118_at	3D	4.24e-04
227869_at	3D	4.27e-04
211940_x_at	3D	4.3e-04
225132_at	3D	4.37e-04
221607_x_at	3D	4.38e-04
235568_at	3D	4.41e-04
1553749_at	3D	4.41e-04
1552347_at	3D	4.44e-04
210128_s_at	3D	4.5e-04
211185_s_at	3D	4.61e-04
212159_x_at	3D	4.61e-04
232520_s_at	3D	4.62e-04
218192_at	3D	4.62e-04
222442_s_at	3D	4.62e-04
222825_at	3D	4.64e-04
225251_at	3D	4.7e-04
222156_x_at	3D	4.7e-04
220881_at	3D	4.7e-04
205950_s_at	3D	4.75e-04
208825_x_at	3D	4.77e-04
204446_s_at	3D	4.83e-04
211581_x_at	3D	4.84e-04
205237_at	3D	4.84e-04
227207_x_at	3D	4.85e-04
212271_at	3D	4.85e-04
217733_s_at	3D	4.9e-04
220945_x_at	3D	4.9e-04
201301_s_at	3D	4.92e-04
233072_at	3D	4.94e-04
204478_s_at	3D	4.94e-04
222447_at	3D	4.94e-04
212015_x_at	3D	4.98e-04
219457_s_at	3D	5.01e-04
226566_at	3D	5.02e-04
223993_s_at	3D	5.02e-04
212780_at	3D	5.02e-04
212227_x_at	3D	5.02e-04
200999_s_at	3D	5.04e-04
89476_r_at	3D	5.08e-04
91952_at	3D	5.12e-04
213340_s_at	3D	5.15e-04
202302_s_at	3D	5.15e-04
222262_s_at	3D	5.17e-04
201550_x_at	3D	5.19e-04
201096_s_at	3D	5.19e-04
209770_at	3D	5.22e-04
200634_at	3D	5.23e-04
224414_s_at	3D	5.27e-04
209771_x_at	3D	5.28e-04
235396_at	3D	5.32e-04
201914_s_at	3D	5.33e-04
227379_at	3D	5.35e-04
71933_at	3D	5.35e-04
218583_s_at	3D	5.36e-04
211978_x_at	3D	5.37e-04
219095_at	3D	5.46e-04
225076_s_at	3D	5.5e-04
225289_at	3D	5.5e-04
225830_at	3D	5.53e-04
200863_s_at	3D	5.54e-04
205142_x_at	3D	5.58e-04
219281_at	3D	5.68e-04
244495_x_at	3D	5.73e-04
204007_at	3D	5.74e-04
212835_at	3D	5.75e-04
213483_at	3D	5.75e-04
201388_at	3D	5.75e-04
1552343_s_at	3D	5.86e-04
1554510_s_at	3D	5.88e-04
204308_s_at	3D	5.98e-04
200890_s_at	3D	5.98e-04
218303_x_at	3D	6.04e-04
201768_s_at	3D	6.04e-04
204031_s_at	3D	6.12e-04
1553567_s_at	3D	6.14e-04
201531_at	3D	6.19e-04
1554624_a_at	3D	6.21e-04
208632_at	3D	6.25e-04

222432_s_at	3D	6.31e-04		208103_s_at	3D	7.85e-04
202275_at	3D	6.31e-04		224789_at	3D	7.97e-04
1553570_x_at	3D	6.31e-04		210017_at	3D	7.97e-04
227236_at	3D	6.32e-04		203175_at	3D	8.01e-04
206302_s_at	3D	6.32e-04		209004_s_at	3D	8.02e-04
208904_s_at	3D	6.32e-04		204713_s_at	3D	8.07e-04
204526_s_at	3D	6.43e-04		212363_x_at	3D	8.09e-04
218456_at	3D	6.44e-04		200741_s_at	3D	8.1e-04
204419_x_at	3D	6.44e-04		215399_s_at	3D	8.12e-04
1569206_at	3D	6.47e-04		209879_at	3D	8.2e-04
52169_at	3D	6.48e-04		206559_x_at	3D	8.2e-04
202119_s_at	3D	6.54e-04		208643_s_at	3D	8.2e-04
204211_x_at	3D	6.55e-04		209791_at	3D	8.22e-04
208642_s_at	3D	6.58e-04		219191_s_at	3D	8.24e-04
212330_at	3D	6.62e-04		203568_s_at	3D	8.26e-04
213084_x_at	3D	6.68e-04		205917_at	3D	8.28e-04
203012_x_at	3D	6.68e-04		57739_at	3D	8.29e-04
209286_at	3D	6.72e-04		222557_at	3D	8.44e-04
204563_at	3D	6.73e-04		228230_at	3D	8.54e-04
219403_s_at	3D	6.76e-04		204174_at	3D	8.59e-04
266_s_at	3D	6.77e-04		200794_x_at	3D	8.64e-04
217918_at	3D	6.81e-04		217930_s_at	3D	8.66e-04
202478_at	3D	6.81e-04		215498_s_at	3D	8.77e-04
218290_at	3D	6.85e-04		211970_x_at	3D	8.77e-04
203514_at	3D	6.85e-04		209333_at	3D	8.79e-04
218639_s_at	3D	6.87e-04		204950_at	3D	8.82e-04
214953_s_at	3D	6.87e-04		218454_at	3D	8.83e-04
222133_s_at	3D	6.87e-04		200611_s_at	3D	8.83e-04
201232_s_at	3D	6.87e-04		218431_at	3D	8.85e-04
221698_s_at	3D	6.93e-04		208082_x_at	3D	8.86e-04
AFFX-HUMGAPDH/				203186_s_at	3D	8.88e-04
M33197	3D	6.94e-04		202381_at	3D	8.91e-04
202477_s_at	3D	6.95e-04		201665_x_at	3D	8.95e-04
224873_s_at	3D	6.96e-04		203750_s_at	3D	8.99e-04
225282_at	3D	6.97e-04		218728_s_at	3D	9.0e-04
203528_at	3D	6.97e-04		207667_s_at	3D	9.0e-04
201094_at	3D	6.97e-04		225899_x_at	3D	9.01e-04
221484_at	3D	7.08e-04		200668_s_at	3D	9.04e-04
209515_s_at	3D	7.08e-04		216379_x_at	3D	9.15e-04
210951_x_at	3D	7.08e-04		206707_x_at	3D	9.15e-04
203116_s_at	3D	7.1e-04		210846_x_at	3D	9.19e-04
207168_s_at	3D	7.1e-04		208093_s_at	3D	9.19e-04
235067_at	3D	7.11e-04		220001_at	3D	9.2e-04
218060_s_at	3D	7.11e-04		201049_s_at	3D	9.2e-04
226050_at	3D	7.13e-04		205277_at	3D	9.35e-04
212460_at	3D	7.13e-04		210646_x_at	3D	9.39e-04
209369_at	3D	7.13e-04		205172_x_at	3D	9.39e-04
215313_x_at	3D	7.17e-04		201009_s_at	3D	9.39e-04
202096_s_at	3D	7.29e-04		48580_at	3D	9.41e-04
205627_at	3D	7.32e-04		211605_s_at	3D	9.46e-04
206656_s_at	3D	7.34e-04		228993_s_at	3D	9.47e-04
201082_s_at	3D	7.37e-04		202029_x_at	3D	9.47e-04
228999_at	3D	7.39e-04		226659_at	3D	9.49e-04
239761_at	3D	7.41e-04		38069_at	3D	9.49e-04
214550_s_at	3D	7.47e-04		201823_s_at	3D	9.49e-04
222708_s_at	3D	7.54e-04		200725_x_at	3D	9.52e-04
200958_s_at	3D	7.68e-04		201827_at	3D	9.52e-04
208540_x_at	3D	7.69e-04		209107_x_at	3D	9.55e-04
1554679_a_at	3D	7.71e-04		1552773_at	3D	9.6e-04
206738_at	3D	7.75e-04		210716_s_at	3D	9.64e-04
213603_s_at	3D	7.83e-04		218992_at	3D	9.66e-04
216593_s_at	3D	7.83e-04		204204_at	3D	9.66e-04
201673_s_at	3D	7.83e-04		200051_at	3D	9.66e-04
223417_at	3D	7.84e-04		214119_s_at	3D	9.67e-04

22065"9_s_at	3D	9 rie-oi
214775_at	3D	9.72e-04
204280_at	3D	9.72e-04
217837_s_at	3D	9.73e-04
203134_at	3D	9.78e-04
21747 3_x_at	3D	9.84e-04
241353_s_at	3D	9.89e-04
223044_at	3D	9.89e-04
202281_at	3D	9.89e-04
205698_s_at	3D	9.89e-04
211271_x_at	3D	9.94e-04
201253_s_at	3D	9.95e-04
210422_x_at	3D	9.97e-04
202572_s_at	3D	9.97e-04
203416_at	3D	1.003489e-03
1554899_s_at	3D	1.00444e-03
21142 9_s_at	3D	1.007407e-03
224680_at	3D	1.009498e-03
221480_at	3D	1.009891e-03
223444_at	3D	1.011831e-03
201859_at	3D	1.011959e-03
21044 3_x_at	3D	1.029452e-03
227 658_s_at	3D	1.030586e-03
201319_at	3D	1.036894e-03
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633

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221471_at	3D	0.02		200866_s_at	3D	0.02
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224930_x_at	3D	0.03	212862_at	3D	0.03
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223150_s_at	3D	0.03	201256_at	3D	0.03
207943_x_at	3D	0.03	203688_at	3D	0.03
1552863_a_at	3D	0.03	201178_at	3D	0.03
200830_at	3D	0.03	236133_x_at	3D	0.03
211543_s_at	3D	0.03	203487_s_at	3D	0.03
212777_at	3D	0.03	200874_s_at	3D	0.03
201807_at	3D	0.03	208407_s_at	3D	0.03
201365_at	3D	0.03	201724_s_at	3D	0.03
210561_s_at	3D	0.03	224662_at	3D	0.03
213620_s_at	3D	0.03	218984_at	3D	0.03
218458_at	3D	0.03	204155_s_at	3D	0.03
225616_at	3D	0.03	207163_s_at	3D	0.03
200717_x_at	3D	0.03	207793_s_at	3D	0.03
205067_at	3D	0.03	218854_at	3D	0.03
219666_at	3D	0.03	217854_s_at	3D	0.03
210540_s_at	3D	0.03	204252_at	3D	0.03
204415_at	3D	0.03	200932_s_at	3D	0.03
207857_at	3D	0.03	224412_s_at	3D	0.03
211159_s_at	3D	0.03	202638_s_at	3D	0.04
203113_s_at	3D	0.03	202787_s_at	3D	0.04
208619_at	3D	0.03	203184_at	3D	0.04
200975_at	3D	0.03	210317_s_at	3D	0.04
218341_at	3D	0.03	212689_s_at	3D	0.04
203076_s_at	3D	0.03	210835_s_at	3D	0.04
202717_s_at	3D	0.03	200768_s_at	3D	0.04
200901_s_at	3D	0.03	200629_at	3D	0.04
218171_at	3D	0.03	201769_at	3D	0.04
201862_s_at	3D	0.03	211889_x_at	3D	0.04
208728_s_at	3D	0.03	201729_s_at	3D	0.04
211711_s_at	3D	0.03	200929_at	3D	0.04
233208_x_at	3D	0.03	208420_x_at	3D	0.04
214438_at	3D	0.03	200646_s_at	3D	0.04
203983_at	3D	0.03	219520_s_at	3D	0.04
217893_s_at	3D	0.03	216841_s_at	3D	0.04
219607_s_at	3D	0.03	209479_at	3D	0.04
218539_at	3D	0.03	214866_at	3D	0.04
218841_at	3D	0.03	202135_s_at	3D	0.04
209536_s_at	3D	0.03	213535_s_at	3D	0.04
212152_x_at	3D	0.03	210378_s_at	3D	0.04
202497_x_at	3D	0.03	206636_at	3D	0.04
200777_s_at	3D	0.03	200959_at	3D	0.04
217803_at	3D	0.03	223398_at	3D	0.04
218383_at	3D	0.03	212864_at	3D	0.04
212973_at	3D	0.03	204328_at	3D	0.04
214427_at	3D	0.03	205042_at	3D	0.04
1552584_at	3D	0.03	1552263_at	3D	0.04
205668_at	3D	0.03	224846_at	3D	0.04
209901_x_at	3D	0.03	222231_s_at	3D	0.04
220320_at	3D	0.03	224605_at	3D	0.04
217898_at	3D	0.03	213080_x_at	3D	0.04
202155_s_at	3D	0.03	216221_s_at	3D	0.04

211972 _x_at	3D	0.04		206015_s_at	3D	0.04
202864 _s_at	3D	0.04		204185_x_at	3D	0.04
211250 _s_at	3D	0.04		213370_s_at	3D	0.04
208992 _s_at	3D	0.04		203461_at	3D	0.04
200981 _x_at	3D	0.04		224574_at	3D	0.04
220731 _s_at	3D	0.04		204804_at	3D	0.04
212026 _s_at	3D	0.04		204970_s_at	3D	0.04
201346 _at	3D	0.04		206632_s_at	3D	0.04
201761 _at	3D	0.04		229521_at	3D	0.04
221764 _at	3D	0.04		222636_at	3D	0.04
231059 _x_at	3D	0.04		200094_s_at	3D	0.04
212742 _at	3D	0.04		2054 62_s_at	3D	0.04
217874 _at	3D	0.04		211991_s_at	3D	0.04
207008 _at	3D	0.04		200014_s_at	3D	0.04
213225 _at	3D	0.04		200689_x_at	3D	0.04
211794 _at	3D	0.04		224602_at	3D	0.04
217750 _s_at	3D	0.04		218718_at	3D	0.04
238974 _at	3D	0.04		220741_s_at	3D	0.04
200605 _s_at	3D	0.04		201358_s_at	3D	0.04
222530 _s_at	3D	0.04		208120_x_at	3D	0.04
207335 _x_at	3D	0.04		201530_x_at	3D	0.04
218530 _at	3D	0.04		204246_s_at	3D	0.04
218909 _at	3D	0.04		202637_s_at	3D	0.04
218047 _at	3D	0.04		218751_s_at	3D	0.04
204477 _at	3D	0.04		208304_at	3D	0.04
217299 _s_at	3D	0.04		205707_at	3D	0.04
212014 _x_at	3D	0.04		200829_x_at	3D	0.04
218498 _s_at	3D	0.04		202418_at	3D	0.04
203462 _x_at	3D	0.04		233647_s_at	3D	0.04
201453 _x_at	3D	0.04		209667_at	3D	0.04
204367 _at	3D	0.04		202604_x_at	3D	0.04
203243 _s_at	3D	0.04		226038_at	3D	0.04
208912 _s_at	3D	0.04		239598_s_at	3D	0.04
212305 _s_at	3D	0.04		221775_x_at	3D	0.04
210088 _x_at	3D	0.04		208696_at	3D	0.04
214290 _s_at	3D	0.04		212782_x_at	3D	0.04
210532 _s_at	3D	0.04		218011_at	3D	0.04
225517 _at	3D	0.04		222652_s_at	3D	0.04
213501 _at	3D	0.04		218018_at	3D	0.04
207522 _s_at	3D	0.04		210616_s_at	3D	0.04
213226 _at	3D	0.04		212050_at	3D	0.04
211725 _s_at	3D	0.04		208405_s_at	3D	0.04
213590 _at	3D	0.04		208975_s_at	3D	0.04
203880 _at	3D	0.04		204254_s_at	3D	0.04
220052 _s_at	3D	0.04		213036_x_at	3D	0.04
218474 _s_at	3D	0.04		218088_s_at	3D	0.04
206090 _s_at	3D	0.04		212558_at	3D	0.04
205349 _at	3D	0.04		203234_at	3D	0.04
226811 _at	3D	0.04		201443_s_at	3D	0.04
221763 _at	3D	0.04		207131_x_at	3D	0.04
220684 _at	3D	0.04		2184 92_s_at	3D	0.,04
207573 _x_at	3D	0.04		209696_at	3D	0.04
202670 _at	3D	0.04		208852_s_at	3D	0.04
203362 _s_at	3D	0.04		1553906_s_at	3D	0.04
208742 _s_at	3D	0.04		220112_at	3D	0.04
210453 _x_at	3D	0.04		202249_s_at	3D	0.04
213045 _at	3D	0.04		212532_s_at	3D	0.04
203508 _at	3D	0.04		213356_x_at	3D	0.04
222410 _s_at	3D	0.04		223501_at	3D	0.04
201487 _at	3D	0.04		219929_s_at	3D	0.04
201200 _at	3D	0.04		200045_at	3D	0.04
218131 _s_at	3D	0.04		200022_at	3D	0.04
202290 _at	3D	0.04		219242_at	3D	0.04
1553133 _at	3D	0.04		203345 _s_at	3D	0.04

Probe	Group	Value
205251_at	3D	0.04
208675_s_at	3D	0.04
217955_at	3D	0.04
218139_s_at	3D	0.04
212081_x_at	3D	0.04
1552257_a_at	3D	0.04
225919_s_at	3D	0.04
203885_at	3D	0.04
201060_x_at	3E	2.81e-08
209240_at	3E	8.4e-08
218740_s_at	3E	1.2e-07
218064_s_at	3E	1.46e-07
201061_s_at	3E	2.2e-07
203560_at	3E	2.43e-07
201057_s_at	3E	2.48e-07
203624_at	3E	3.78e-07
203744_at	3E	4.13e-07
202955_s_at	3E	4.99e-07
203723_at	3E	7.04e-07
238701_x_at	3E	7.87e-07
206792_x_at	3E	1.02e-06
213545_x_at	3E	1.47e-06
202104_s_at	3E	1.71e-06
1553718_at	3E	1.73e-06
227833_s_at	3E	1.75e-06
208246_x_at	3E	1.91e-06
1562511_at	3E	1.91e-06
214002_at	3E	1.98e-06
235327_x_at	3E	2.0e-06
203317_at	3E	2.02e-06
244756_at	3E	2.34e-06
218067_s_at	3E	2.38e-06
204404_at	3E	2.59e-06
227267_at	3E	2.89e-06
208773_s_at	3E	2.89e-06
213932_x_at	3E	3.03e-06
202014_at	3E	3.1e-06
220856_x_at	3E	3.82e-06
208781_x_at	3E	3.83e-06
204158_s_at	3E	4.11e-06
203380_x_at	3E	4.2e-06
208498_s_at	3E	4.86e-06
220071_x_at	3E	4.92e-06
205786_s_at	3E	4.94e-06
202180_s_at	3E	5.2e-06
223697_x_at	3E	5.86e-06
1563497_at	3E	6.13e-06
200871_s_at	3E	6.22e-06
214003_x_at	3E	6.47e-06
234981_x_at	3E	6.64e-06
201599_at	3E	6.8e-06
203943_at	3E	6.82e-06
222311_s_at	3E	7.78e-06
219981_x_at	3E	8.34e-06
213836_s_at	3E	8.49e-06
202361_at	3E	8.54e-06
1552302_at	3E	8.68e-06
224667_x_at	3E	8.97e-06
220439_at	3E	8.97e-06
213956_at	3E	9.11e-06
210244_at	3E	9.91e-06
208718_at	3E	1.01e-05
210428_s_at	3E	1.06e-05
201010_s_at	3E	1.06e-05
200710_at	3E	1.07e-05
203255_at	3E	1.1e-05
218157_x_at	3E	1.12e-05
224564_s_at	3E	1.13e-05
209458_x_at	3E	1.13e-05
200033_at	3E	1.13e-05
202157_s_at	3E	1.14e-05
220980_s_at	3E	1.16e-05
200983_x_at	3E	1.16e-05
222913_at	3E	1.17e-05
54632_at	3E	1.23e-05
220000_at	3E	1.24e-05
228318_s_at	3E	1.29e-05
229120_s_at	3E	1.39e-05
203694_s_at	3E	1.48e-05
1555866_a_at	3E	1.49e-05
219049_at	3E	1.51e-05
220712_at	3E	1.52e-05
211699_x_at	3E	1.73e-05
215207_x_at	3E	1.75e-05
210648_x_at	3E	1.75e-05
205546_s_at	3E	1.75e-05
200041_s_at	3E	1.75e-05
224707_at	3E	1.76e-05
201598_s_at	3E	1.77e-05
202031_s_at	3E	1.78e-05
202522_at	3E	1.78e-05
212359_s_at	3E	1.94e-05
217868_s_at	3E	2.09e-05
230529_at	3E	2.1e-05
219040_at	3E	2.13e-05
205370_x_at	3E	2.2e-05
220046_s_at	3E	2.3e-05
213347_x_at	3E	2.3e-05
1555606_a_at	3E	2.43e-05
203021_at	3E	2.47e-05
243981_at	3E	2.56e-05
224965_at	3E	2.59e-05
218920_at	3E	2.65e-05
217414_x_at	3E	2.66e-05
236621_at	3E	2.74e-05
219957_at	3E	2.74e-05
203900_at	3E	2.76e-05
212753_at	3E	2.82e-05
200899_s_at	3E	2.82e-05
236436_at	3E	2.94e-05
219594_at	3E	3.05e-05
210638_s_at	3E	3.05e-05
209430_at	3E	3.22e-05
209116_x_at	3E	3.34e-05
203442_x_at	3E	3.39e-05
201748_s_at	3E	3.41e-05
209148_at	3E	3.49e-05
206177_s_at	3E	3.55e-05
201972_at	3E	3.6e-05
206676_at	3E	3.61e-05
210981_s_at	3E	3.65e-05
204018_x_at	3E	3.7e-05
204193_at	3E	3.75e-05
226334_s_at	3E	3.86e-05
218298_s_at	3E	3.86e-05
205312_at	3E	3.95e-05
207474_at	3E	3.95e-05
213185_at	3E	3.97e-05

20088 9 s_at	3E-	4.06e-05	201389 _at	3E	7.64e-05
207941 _s_at	3E	4.14e-05	224616 _at	3E	7.68e-05
202460 _s_at	3E	4.17e-05	220446 _s_at	3E	7.82e-05
202377 _at	3E	4.2e-05	213867 _x_at	3E	7.91e-05
212969 _x_at	3E	4.23e-05	225756 _at	3E	8.15e-05
202891 _at	3E	4.33e-05	209057 _x_at	3E	8.16e-05
223857 _x_at	3E	4.41e-05	201315 _x_at	3E	8.19e-05
203288 _at	3E	4.49e-05	205513 _at	3E	8.23e-05
207365 _x_at	3E	4.5e-05	207730 _x_at	3E	8.38e-05
218079 _s_at	3E	4.54e-05	226076 _s_at	3E	8.41e-05
201055 _s_at	3E	4.54e-05	219259 _at	3E	8.43e-05
225120 _at	3E	4.6e-05	208857^_s_at	3E	8.52e-05
214055 _x_at	3E	4.6e-05	1554455 _at	3E	8.52e-05
202503 _s_at	3E	4.6e-05	208943 _s_at	3E	8.55e-05
200021 _at	3E	4.6e-05	213622 _at	3E	8.62e-05
203925 _at	3E	4.77e-05	202951 _at	3E	8.8e-05
226091 _s_at	3E	4.89e-05	212661 _x_at	3E	8.88e-05
239740 _at	3E	4.89e-05	201475 _x_at	3E	8.88e-05
202957_ at	3E	4.93e-05	235479 _at	3E	8.96e-05
209619 _at	3E	4.97e-05	208835 _s_at	3E	8.96e-05
214665 _s_at	3E	5.05e-05	201582 _at	3E	8.96e-05
201221 _s_at	3E	5.12e-05	202057 _at	3E	9.05e-05
211745 _x_at	3E	5.18e-05	200801 _x_at	3E	9.07e-05
205583 _s_at	3E	5.28e-05	235816] _s_at	3E	9.14e-05
231735 _s_at	3E	5.33e-05	217728 _at	3E	9.23e-05
202251 _at	3E	5.63e-05	220933 _s_at	3E	9.51e-05
205716 _at	3E	5.67e-05	211696 _x_at	3E	9.53e-05
225191 _at	3E	5.68e-05	210142 _x_at	3E	9.59e-05
219452 _at	3E	5.68e-05	201136 _at	3E	9.62e-05
1563455 _at	3E	5.77e-05	202880 _s_at	3E	9.73e-05
204425 _at	3E	5.83e-05	221858 _at	3E	9.74e-05
222981 _s_at	3E	5.83e-05	212024 _x_at	3E	9.78e-05
1553185 _at	3E	5.85e-05	201554 _x_at	3E	9.79e-05
206035_ at	3E	5.87e-05	36994 _at	3E	1.03e-04
AFFX-hum_alu_at	3E	5.96e-05	220034 _at	3E	1.03e-04
221500 _s_at	3E	6.0e-05	209140 _x_at	3E	1.03e-04
202841 _x_at	3E	6.04e-05	214938 _x_at	3E	1.04e-04
213065 _at	3E	6.06e-05	204692 _at	3E	1.04e-04
209409 _at	3E	6.16e-05	201369 _s_at	3E	1.04e-04
212531 _at	3E	6.24e-05	203107 _x_at	3E	1.06e-04
78047 _s_at	3E	6.27e-05	201891 _s_at	3E	1.06e-04
225995 _x_at	3E	6.57e-05	219549 _s_at	3E	1.07e-04
44146 _at	3E	6.58e-05	214135 _at	3E	1.08e-04
214459 _x_at	3E	6.6e-05	225563 _at	3E	1.09e-04
206323 _x_at	3E	6.68e-05	225218 _at	3E	1.09e-04
219980 _at	3E	6.72e-05	222605 _at	3E	1.09e-04
213624 _at	3E	6.78e-05	209514 _s_at	3E	1.09e-04
202038 _at	3E	6.78e-05	212706 _at	3E	1.1e-04
207384 _at	3E	6.86e-05	216526 _x_at	3E	1.1e-04
212869 _x_at	3E	6.87e-05	203729 _at	3E	1.1e-04
219672 _at	3E	7.0e-05	204164 _at	3E	1.1e-04
1558111 _at	3E	7.04e-05	224561 _s_at	3E	1.12e-04
213671 _s_at	3E	7.06e-05	203839 _s_at	3E	1.12e-04
220661 _s_at	3E	7.1e-05	225406 _at	3E	1.13e-04
208872 _s_at	3E	7.1e-05	218614 _at	3E	1.13e-04
208720 _s_at	3E	7.1e-05	218310 _at	3E	1.14e-04
200726 _at	3E	7.16e-05	217232 _x_at	3E	1.15e-04
200998 _s_at	3E	7.18e-05	210962 _s_at	3E	1.15e-04
214414 _x_at	3E	7.2e-05	227811 _at	3E	1.16e-04
211749 _s_at	3E	7.29e-05	224585 _x_at	3E	1.16e-04
202917 _s_at	3E	7.32e-05	218941 _at	3E	1.21e-04
217928 _s_at	3E	7.35e-05	207269 _at	3E	1.23e-04
207783 _x_at	3E	7.5e-05	208812 _x_at	3E	1.23e-04
			208174 _x_at	3E	1.23e-04

201805_at	3E	1.26e-04	208610_s_at	3E	2.01e-04
219186_at	3E	1.28e-04	1552553_a_at	3E	2.01e-04
212576_at	3E	1.28e-04	218600_at	3E	2.03e-04
221511_x_at	3E	1.28e-04	201576_s_at	3E	2.08e-04
200797_s_at	3E	1.28e-04	203535_at	3E	2.09e-04
203370_s_at	3E	1.3e-04	227094_at	3E	2.1e-04
204714_s_at	3E	1.3e-04	218039_at	3E	2.11e-04
202624_s_at	3E	1.33e-04	201071_x_at	3E	2.11e-04
219678_x_at	3E	1.34e-04	203034_s_at	3E	2.12e-04
218905_at	3E	1.35e-04	218599_at	3E	2.13e-04
212988_x_at	3E	1.35e-04	215832_x_at	3E	2.15e-04
207064_s_at	3E	1.38e-04	211883_x_at	3E	2.16e-04
206834_at	3E	1.42e-04	200059_s_at	3E	2.16e-04
208919_s_at	3E	1.45e-04	206790_s_at	3E	2.17e-04
208749_x_at	3E	1.46e-04	201903_at	3E	2.17e-04
231922_at	3E	1.48e-04	202607_at	3E	2.21e-04
216231_s_at	3E	1.48e-04	203752_s_at	3E	2.22e-04
1570033_at	3E	1.48e-04	202902_s_at	3E	2.22e-04
225649_s_at	3E	1.5e-04	202388_at	3E	2.22e-04
227467_at	3E	1.51e-04	208695_s_at	3E	2.22e-04
211995_x_at	3E	1.53e-04	232008_s_at	3E	2.24e-04
227233_at	3E	1.55e-04	200663_at	3E	2.26e-04
236254_at	3E	1.56e-04	211275_s_at	3E	2.32e-04
201395_at	3E	1.56e-04	205557_at	3E	2.33e-04
202573_at	3E	1.57e-04	214523_at	3E	2.37e-04
203198_at	3E	1.57e-04	202548_s_at	3E	2.38e-04
225508_at	3E	1.59e-04	202379_s_at	3E	2.38e-04
203455_s_at	3E	.1.59e-04	205068_s_at	3E	2.4e-04
AFFX-HUMGAPDH/			201721_s_at	3E	2.41e-04
M33197	3E	1.6e-04	221804_s_at	3E	2.43e-04
200650_s_at	3E	1.6e-04	210069_at	3E	2.43e-04
222217_s_at	3E	1.61e-04	201605_x_at	3E	2.44e-04
200031_s_at	3E	1.61e-04	209806_at	3E	2.45e-04
225374_at	3E	1.63e-04	202187_s_at	3E	2.45e-04
211742_s_at	3E	1.63e-04	202682_s_at	3E	2.45e-04
205863_at	3E	1.63e-04	219033_at	3E	2.46e-04
213453_x_at	3E	1.65e-04	203318_s_at	3E	2.46e-04
219371_s_at	3E	1.66e-04	212307_s_at	3E	2.49e-04
221619_s_at	3E	1.67e-04	205554_s_at	3E	2.49e-04
32259_at	3E	1.68e-04	225640_at	3E	2.5e-04
202220_at	3E	1.68e-04	209762_x_at	3E	2.5e-04
218776_s_at	3E	1.69e-04	225247_at	3E	2.51e-04
212542_s_at	3E	1.69e-04	218265_at	3E	2.52e-04
205865_at	3E	1.69e-04	200077_s_at	3E	2.52e-04
209252_at	3E	1.69e-04	204959_at	3E	2.53e-04
207671_s_at	3E	1.7e-04	203502_at	3E	2.54e-04
217817_at	3E	1.71e-04	221580_s_at	3E	2.54e-04
206209_s_at	3E	1.71e-04	1554892_a_at	3E	2.56e-04
37796_at	3E	1.72e-04	213515_x_at	3E	2.6e-04
232946_s_at	3E	1.72e-04	218578_at	3E	2.63e-04
218595_s_at	3E	1.72e-04	203110_at	3E	2.67e-04
211657_at	3E	1.72e-04	203254_s_at	3E	2.7e-04
219359_at	3E	1.73e-04	212222_at	3E	2.73e-04
220238_s_at	3E	1.84e-04	236165_at	3E	2.8e-04
213034_at	3E	1.85e-04	36030_at	3E	2.81e-04
203282_at	3E	1.86e-04	202990_at	3E	2.83e-04
1553569_at	3E	1.87e-04	213198_at	3E	2.91e-04
201492_s_at	3E	1.87e-04	38710_at	3E	2.92e-04
202466_at	3E	1.88e-04	203523_at	3E	2.92e-04
206257_at	3E	1.91e-04	220467_at	3E	2.96e-04
208651_x_at	3E	1.94e-04	206240_s_at	3E	2.98e-04
224250_s_at	3E	1.99e-04	1554503_a_at	3E	2.98e-04
37652_at	3E	2.0e-04	220416_at	3E	2.99e-04
213280_at	3E	2.01e-04	37028_at	3E	3.0e-04

207801 _s_at	3E	3.01e-04
221474 _at	3E	3.07e-04
200985 _s_at	3E	3.07e-04
229872 _s_at	3E	3.1e-04
210004 _at	3E	3.11e-04
212203 _x_at	3E	3.11e-04
214084 _x_at	3E	3.16e-04
218231 _at	3E	3.16e-04
205400 _at	3E	3.16e-04
208898 _at	3E	3.16e-04
221269 _s_at	3E	3.18e-04
1557915 _s_at	3E	3.18e-04
200905 _x_at	3E	3.18e-04
213119 _at	3E	3.21e-04
202431 _s_at	3E	3.22e-04
203804 _s_at	3E	3.24e-04
213018 _at	3E	3.25e-04
225294 _s_at	3E	3.3e-04
218950 _at	3E	3.3e-04
223097 _at	3E	3.35e-04
208012 _x_at	3E	3.35e-04
202681 _at	3E	3.37e-04
AFFX-HSAC07/		
X00351 _M	3E	3.38e-04
200763 _s_at	3E	3.41e-04
220408 _x_at	3E	3.42e-04
204192 _at	3E	3.42e-04
203459 _s_at	3E	3.45e-04
201356 _at	3E	3.45e-04
209512 _at	3E	3.47e-04
211040 _x_at	3E	3.49e-04
211779 _x_at	3E	3.49e-04
202910 _s_at	3E	3.57e-04
226177 _at	3E	3.58e-04
207674 _at	3E	3.58e-04
213341 _at	3E	3.64e-04
204633 _s_at	3E	3.65e-04
209906 _at	3E	3.66e-04
203006 _at	3E	3.66e-04
1553588 _at	3E	3.66e-04
222667 _s_at	3E	3.68e-04
202499 _s_at	3E	3.7e-04
202426 _s_at	3E	3.7e-04
237426 _at	3E	3.72e-04
32099 _at	3E	3.72e-04
212733 _at	3E	3.72e-04
222435 _s_at	3E	3.72e-04
200791 _s_at	3E	3.72e-04
202545 _at	3E	3.78e-04
220615 _s_at	3E	3.84e-04
201357 _s_at	3E	3.88e-04
201716 _at	3E	3.89e-04
217732 _s_at	3E	3.9e-04
221547 _at	3E	3.91e-04
221875 _x_at	3E	3.93e-04
220956 _s_at	3E	3.93e-04
213051 _at	3E	3.94e-04
209007 _s_at	3E	3.94e-04
211997 _x_at	3E	3.97e-04
207243 _s_at	3E	3.97e-04
204039 _at	3E	3.99e-04
40149 _at	3E	4.01e-04
229723 _at	3E	4.08e-04
57539 _at	3E	4.08e-04

1553594 _a_at	3E	4.09e-04
203922 _s_at	3E	4.11e-04
209234 _at	3E	4.13e-04
211983 _x_at	3E	4.15e-04
218873 _at	3E	4.19e-04
201288 _at	3E	4.21e-04
201118 _at	3E	4.24e-04
211940 _x_at	3E	4.3e-04
228336 _at	3E	4.32e-04
225132 _at	3E	4.37e-04
221607 _x_at	3E	4.38e-04
235568 _at	3E	4.41e-04
1553749 _at	3E	4.41e-04
210128 _s_at	3E	4.5e-04
209236 _at	3E	4.55e-04
212159 _x_at	3E	4.61e-04
211185 _s_at	3E	4.61e-04
232520 _s_at	3E	4.62e-04
218192 _at	3E	4.62e-04
222442 _s_at	3E	4.62e-04
222825 _at	3E	4.64e-04
207081 _s_at	3E	4.68e-04
225251 _at	3E	4.7e-04
222156 _x_at	3E	4.7e-04
220881 _at	3E	4.7e-04
205950 _s_at	3E	4.75e-04
208825 _x_at	3E	4.77e-04
204446 _s_at	3E	4.83e-04
211581 _x_at	3E	4.84e-04
205237 _at	3E	4.84e-04
227207 _x_at	3E	4.85e-04
212271 _at	3E	4.85e-04
217733 _s_at	3E	4.9e-04
220945 _x_at	3E	4.9e-04
201301 _s_at	3E	4.92e-04
233072 _at	3E	4.94e-04
204478 _s_at	3E	4.94e-04
222447 _at	3E	4.94e-04
212015 _x_at	3E	4.98e-04
219457 _s_at	3E	5.01e-04
226566 _at	3E	5.02e-04
223993 _s_at	3E	5.02e-04
212780 _at	3E	5.02e-04
212227 _x_at	3E	5.02e-04
200999 _s_at	3E	5.04e-04
89476 _r_at	3E	5.08e-04
91952 _at	3E	5.12e-04
213340 _s_at	3E	5.15e-04
202302 _s_at	3E	5.15e-04
222262 _s_at	3E	5.17e-04
201096 _s_at	3E	5.19e-04
201550 _x_at	3E	5.19e-04
209770 _at	3E	5.22e-04
200634 _at	3E	5.23e-04
224414 _s_at	3E	5.27e-04
218543 _s_at	3E	5.27e-04
209771 _x_at	3E	5.28e-04
235396 _at	3E	5.32e-04
201914 _s_at	3E	5.33e-04
227379 _at	3E	5.35e-04
218583 _s_at	3E	5.36e-04
211978 _x_at	3E	5.37e-04
219095 _at	3E	5.46e-04
225076 _s_at	3E	5.5e-04

225289_at	3E-	5.5e-04
200863_s_at	3E	5.54e-04
205142_x_at	3E	5.58e-04
219281_at	3E	5.68e-04
244495_x_at	3E	5.73e-04
204007_at	3E	5.74e-04
213483_at	3E	5.75e-04
201388_at	3E	5.75e-04
220796_x_at	3E	5.81e-04
202621_at	3E	5.81e-04
208625_s_at	3E	5.82e-04
204308_s_at	3E	5.98e-04
200890_s_at	3E	5.98e-04
218303_x_at	3E	6.04e-04
201768_s_at	3E	6.04e-04
204031_s_at	3E	6.12e-04
1553567_s_at	3E	6.14e-04
201531_at	3E	6.19e-04
221790_s_at	3E	6.21e-04
1554624_a_at	3E	6.21e-04
208632_at	3E	6.25e-04
202275_at	3E	6.31e-04
1553570_x_at	3E	6.31e-04
226544_x_at	3E	6.32e-04
227236_at	3E	6.32e-04
206302_s_at	3E	6.32e-04
208904_s_at	3E	6.32e-04
204526_s_at	3E	6.43e-04
218456_at	3E	6.44e-04
52169_at	3E	6.48e-04
212259_s_at	3E	6.48e-04
202119_s_at	3E	6.54e-04
204211_x_at	3E	6.55e-04
208642_s_at	3E	6.58e-04
212330_at	3E	6.62e-04
213084_x_at	3E	6.68e-04
203012_x_at	3E	6.68e-04
209286_at	3E	6.72e-04
204563_at	3E	6.73e-04
219403_s_at	3E	6.76e-04
266_s_at	3E	6.77e-04
215089_s_at	3E	6.77e-04
217918_at	3E	6.81e-04
218290_at	3E	6.85e-04
203514_at	3E	6.85e-04
218639_s_at	3E	6.87e-04
222133_s_at	3E	6.87e-04
201232_s_at	3E	6.87e-04
221698_s_at	3E	6.93e-04
AFFX-HUMGAPDH/		
M33197	3E	6.94e-04
202477_s_at	3E	6.95e-04
224873_s_at	3E	6.96e-04
225282_at	3E	6.97e-04
203528_at	3E	6.97e-04
201094_at	3E	6.97e-04
221484_at	3E	7.08e-04
209515_s_at	3E	7.08e-04
210951_x_at	3E	7.08e-04
203116_s_at	3E	7.1e-04
207168_s_at	3E	7.1e-04
235067_at	3E	7.11e-04
218060_s_at	3E	7.11e-04
226050_at	3E	7.13e-04

212460_at	3E	7.13e-04
209369_at	3E	7.13e-04
215313_x_at	3E	7.17e-04
202096_s_at	3E	7.29e-04
205627_at	3E	7.32e-04
206656_s_at	3E	7.34e-04
233929_x_at	3E	7.36e-04
201082_s_at	3E	7.37e-04
214550_s_at	3E	7.47e-04
212329_at	3E	7.54e-04
204520_x_at	3E	7.54e-04
222708_s_at	3E	7.54e-04
220742_s_at	3E	7.54e-04
200958_s_at	3E	7.68e-04
208540_x_at	3E	7.69e-04
1554679_a_at	3E	7.71e-04
206738_at	3E	7.75e-04
213603_s_at	3E	7.83e-04
201673_s_at	3E	7.83e-04
223417_at	3E	7.84e-04
224789_at	3E	7.97e-04
203175_at	3E	8.01e-04
209004_s_at	3E	8.02e-04
204713_s_at	3E	8.07e-04
212363_x_at	3E	8.09e-04
200741_s_at	3E	8.1e-04
215399_s_at	3E	8.12e-04
228098_s_at	3E	8.2e-04
209879_at	3E	8.2e-04
206559_x_at	3E	8.2e-04
208643_s_at	3E	8.2e-04
209791_at	3E	8.22e-04
219191_s_at	3E	8.24e-04
203568_s_at	3E	8.26e-04
57739_at	3E	8.29e-04
222557_at	3E	8.44e-04
228230_at	3E	8.54e-04
204174_at	3E	8.59e-04
200794_x_at	3E	8.64e-04
217930_s_at	3E	8.66e-04
215498_s_at	3E	8.77e-04
211970_x_at	3E	8.77e-04
210070_s_at	3E	8.79e-04
209333_at	3E	8.79e-04
204950_at	3E	8.82e-04
218454_at	3E	8.83e-04
200611_s_at	3E	8.83e-04
218431_at	3E	8.85e-04
208082_x_at	3E	8.86e-04
203186_s_at	3E	8.88e-04
202381_at	3E	8.91e-04
201665_x_at	3E	8.95e-04
203750_s_at	3E	8.99e-04
218728_s_at	3E	9.0e-04
207667_s_at	3E	9.0e-04
225899_x_at	3E	9.01e-04
200668_s_at	3E	9.04e-04
216379_x_at	3E	9.15e-04
206707_x_at	3E	9.15e-04
208093_s_at	3E	9.19e-04
220001_at	3E	9.2e-04
201049_s_at	3E	9.2e-04
205277_at	3E	9.35e-04
213261_at	3E	9.38e-04

657

210646 _x_at	3E	T.39e-04	201293 _x_at	3E	1.089806e-03
205172 _x_at	3E	9.39e-04	201336 _at	3E	1.089806e-03
201009 _s_at	3E	9.39e-04	201257 _x_at	3E	1.089806e-03
48580 _at	3E	9.41e-04	219724 _s_at	3E	1.090671e-03
203314 _at	3E	9.41e-04	201222 _s_at	3E	1.091981e-03
211605 _s_at	3E	9.46e-04	201426 _s_at	3E	1.09304e-03
228993 _s_at	3E	9.47e-04	202161 _at	3E	1.095152e-03
202029 _x_at	3E	9.47e-04	243790 _at	3E	1.096833e-03
226659 _at	3E	9.49e-04	230036 _at	3E	1.098007e-03
38069 _at	3E	9.49e-04	216438 _s_at	3E	1.10513e-03
200725 _x_at	3E	9.52e-04	203412 _at	3E	1.105249e-03
201827 _at	3E	9.52e-04	207127 _s_at	3E	1.105442e-03
209107 _x_at	3E	9.55e-04	237591 _at	3E	1.126902e-03
1552773 _at	3E	9.6e-04	202909 _at	3E	1.126902e-03
210716 _s_at	3E	9.64e-04	244317 _at	3E	1.136175e-03
218992 _at	3E	9.66e-04	212593 _s_at	3E	1.136175e-03
204204 _at	3E	9.66e-04	220367 _s_at	3E	1.142905e-03
200051 _at	3E	9.66e-04	221791 _s_at	3E	1.142905e-03
214119 _s_at	3E	9.67e-04	218078 _s_at	3E	1.144406e-03
220659 _s_at	3E	9.7e-04	223376 _s_at	3E	1.149804e-03
214775 _at	3E	9.72e-04	217783 _s_at	3E	1.159664e-03
204280 _at	3E	9.72e-04	213214 _x_at	3E	1.166967e-03
217837 _s_at	3E	9.73e-04	200948 _at	3E	1.180337e-03
203134 _at	3E	9.78e-04	234873 _x_at	3E	1.181274e-03
1558953 _s_at	3E	9.78e-04	1553297 _a_at	3E	1.181367e-03
217473 _x_at	3E	9.84e-04	203385 _at	3E	1.181992e-03
241353 _s_at	3E	9.89e-04	203159 _at	3E	1.187508e-03
223044 _at	3E	9.89e-04	227286 _at	3E	1.188808e-03
202281 _at	3E	9.89e-04	202117 _at	3E	1.194795e-03
205895 _s_at	3E	9.89e-04	227391 _x_at	3E	1.195823e-03
205698 _s_at	3E	9.89e-04	212895 _s_at	3E	1.195823e-03
211271 _x_at	3E	9.94e-04	210231 _x_at	3E	1.199313e-03
201253 _s_at	3E	9.95e-04	209841 _s_at	3E	1.20954e-03
210422 _x_at	3E	9.97e-04	207509 _s_at	3E	1.209695e-03
202572 _s_at	3E	9.97e-04	211911 _x_at	3E	1.212592e-03
207777 _s_at	3E	9.97e-04	201379 _s_at	3E	1.220052e-03
203416 _at	3E	1.003489e-03	201736 _s_at	3E	1.220052e-03
1554899 _s_at	3E	1.00444e-03	208834 _x_at	3E	1.22053e-03
211429 _s_at	3E	1.007407e-03	212588 _at	3E	1.224826e-03
224680 _at	3E	1.009498e-03	223980 _s_at	3E	1.226563e-03
221480 _at	3E	1.009891e-03	226629 _at	3E	1.226563e-03
201859 _at	3E	1.011959e-03	221899 _at	3E	1.226659e-03
210443 _x_at	3E	1.029452e-03	51192 _at	3E	1.230448e-03
227658 _s_at	3E	1.030586e-03	215706 _x_at	3E	1.23129e-03
205022 _s_at	3E	1.032881e-03	227746 _at	3E	1.235487e-03
201319 _at	3E	1.036894e-03	1553292 _s_at	3E	1.235487e-03
203330 _s_at	3E	1.041567e-03	209423 _s_at	3E	1.242801e-03
200808 _s_at	3E	1.042669e-03	203281 _s_at	3E	1.243004e-03
220525 _s_at	3E	1.047745e-03	212501 _at	3E	1.245744e-03
214606 _at	3E	1.055733e-03	226739 _at	3E	1.250968e-03
48659 _at	3E	1.057067e-03	202510 _s_at	3E	1.250968e-03
212252 _at	3E	1.058923e-03	214721 _x_at	3E	1.255373e-03
208438 _s_at	3E	1.067063e-03	222071 _s_at	3E	1.255373e-03
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230925 _at	3E	1.07041e-03	210996 _s_at	3E	1.257483e-03
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211509 _s_at	3E	1.074738e-03	1554316 _at	3E	1.264703e-03
212437 _at	3E	1.078411e-03	230712 _at	3E	1.265455e-03
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200660 _at	3E	1.089806e-03	200933 _x_at	3E	1.271942e-03

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217398_x_at	3E	1.275452e-03	201409_s_at	3E	1.537771e-03
223922_x_at	3E	1.281671e-03	205936_s_at	3E	1.541672e-03
224695_at	3E	1.282998e-03	225451_at	3E	1.542917e-03
226434_at	3E	1.282998e-03	208770_s_at	3E	1.543713e-03
209354_at	3E	1.282998e-03	205981_s_at	3E	1.547572e-03
203258_at	3E	1.283899e-03	40446_at	3E	1.552195e-03
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38241_at	3E	1.287782e-03	201047_x_at	3E	1.554219e-03
227129_x_at	3E	1.290619e-03	201840_at	3E	1.558031e-03
214629_x_at	3E	1.290619e-03	212414_s_at	3E	1.562386e-03
217844_at	3E	1.290619e-03	225091_at	3E	1.57086e-03
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1552733_at	3E	1.302004e-03	222429_at	3E	1.592165e-03
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217992_s_at	3E	1.352104e-03	207431_s_at	3E	1.617312e-03
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213572_s_at	3E	3.062673e-03	1569257_at	3E	3.40866e-03
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214780_s_at	3E	3.100155e-03	204604_at	3E	3.476627e-03
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222521_x_at	3E	3.10633e-03	208624_s_at	3E	3.500557e-03
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225827_at	3E	3.126708e-03	225558_at	3E	3.527967e-03
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225848_at	3E	4.104184e-03	209744_x_at	3E	4.620646e-03
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663

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227540_at	3E	5.767802e-03	212543_at	3E	6.432793e-03
219770_at	3E	5.767802e-03	212403_at	3E	6.442801e-03
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208684_at	3E	5.976821e-03	227485_at	3E	6.660119e-03
218754_at	3E	5.986086e-03	203964_at	3E	6.661298e-03
223256_at	3E	5.986086e-03	201700_at	3E	6.689404e-03
203182_s_at	3E	5.986086e-03	211928_at	3E	6.716299e-03
203471_s_at	3E	6.006933e-03	214531_s_at	3E	6.7204e-03
211842_s_at	3E	6.01978e-03	227693_at	3E	6.724561e-03
229510_at	3E	6.023452e-03	205178_s_at	3E	6.725276e-03
225753_at	3E	6.032082e-03	200852_x_at	3E	6.731826e-03
217937_s_at	3E	6.058306e-03	209344_at	3E	6.732151e-03
209584_x_at	3E	6.058306e-03	223060_at	3E	6.787672e-03
225562_at	3E	6.073506e-03	200677_at	3E	6.788598e-03
201153_s_at	3E	6.099279e-03	205718_at	3E	6.803869e-03
203656_at	3E	6.113031e-03	217810_x_at	3E	6.808959e-03
214112_s_at	3E	6.114241e-03	217801_at	3E	6.810385e-03
200781_s_at	3E	6.114241e-03	214501_s_at	3E	6.812377e-03
227075_at	3E	6.127985e-03	218024_at	3E	6.813227e-03
203241_at	3E	6.127985e-03	225095_at	3E	6.81405e-03
223190_s_at	3E	6.12836e-03	225414_at	3E	6.81405e-03
206200_s_at	3E	6.147373e-03	203435_s_at	3E	6.829224e-03
231377_at	3E	6.169846e-03	1552701_a_at	3E	6.843967e-03
214377_s_at	3E	6.199844e-03	222721_at	3E	6.84544e-03
206025_s_at	3E	6.225411e-03	221821_s_at	3E	6.856306e-03
201558_at	3E	6.225411e-03	233970_s_at	3E	6.863824e-03
205147_x_at	3E	6.229392e-03	217336_at	3E	6.886971e-03
208894_at	3E	6.245744e-03	225610_at	3E	6.92511e-03
228410_at	3E	6.247668e-03	219282_s_at	3E	6.92511e-03
231716_at	3E	6.265485e-03	219157_at	3E	6.92511e-03
203309_s_at	3E	6.29822e-03	209467_s_at	3E	6.92511e-03
230748_at	3E	6.303668e-03	202487_s_at	3E	6.92511e-03
214298_x_at	3E	6.32897e-03	225205_at	3E	6.940509e-03
210187_at	3E	6.32897e-03	200754_x_at	3E	6.940509e-03

204882_at	3E	6.953964e-03	203136_at	3E	7.534025e-03
212830_at	3E	6.974216e-03	212594_at	3E	7.620957e-03
215338_s_at	3E	6.997348e-03	210396_s_at	3E	7.62691e-03
206765_at	3E	7.020807e-03	210208_x_at	3E	7.631493e-03
223454_at	3E	7.03782e-03	207266_x_at	3E	7.639306e-03
202446_s_at	3E	7.03782e-03	212055_at	3E	7.668273e-03
207205_at	3E	7.053448e-03	223434_at	3E	7.680539e-03
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213988_s_at	3E	7.06311e-03	209367_at	3E	7.698491e-03
1559964_at	3E	7.078481e-03	201135_at	3E	7.707907e-03
215629_s_at	3E	7.09905e-03	201853_s_at	3E	7.741985e-03
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218807_at	3E	7.107909e-03	200633_at	3E	7.742251e-03
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213775_x_at	3E	7.168062e-03	207657_x_at	3E	7.78105e-03
215245_x_at	3E	7.168062e-03	208763_s_at	3E	7.805975e-03
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201168_x_at	3E	7.179763e-03	209282_at	3E	7.816075e-03
207624_s_at	3E	7.181062e-03	204613_at	3E	7.829408e-03
201967_at	3E	7.181062e-03	218520_at	3E	7.847678e-03
220023_at	3E	7.190705e-03	1552463_at	3E	7.862796e-03
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225291_at	3E	7.202776e-03	224833_at	3E	7.867035e-03
214771_x_at	3E	7.202776e-03	225629_s_at	3E	7.867035e-03
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1555812_a_at	3E	7.20495e-03	202665_s_at	3E	7.886199e-03
201460_at	3E	7.207847e-03	214181_x_at	3E	7.909036e-03
219161_s_at	3E	7.226004e-03	207765_s_at	3E	7.909036e-03
210943_s_at	3E	7.233028e-03	218852_at	3E	7.909364e-03
221264_s_at	3E	7.239116e-03	201899_s_at	3E	7.910521e-03
228446_at	3E	7.242239e-03	212264_s_at	3E	7.913548e-03
225994_at	3Ξ	7.243468e-03	208887_at	3E	7.916934e-03
230619_at	3E	7.245961e-03	200788_s_at	3E	7.916934e-03
228532_at	3E	7.271989e-03	201479_at	3E	7.916934e-03
217938_s_at	3E	7.277202e-03	201858_s_at	3E	7.919765e-03
207700_s_at	3E	7.2917e-03	208997_s_at	3E	7.924662e-03
200859_x_at	3E	7.320574e-03	1558956_s_at	3E	7.951513e-03
220319_s_at	3E	7.323526e-03	224560_at	3E	7.973568e-03
201296_s_at	3E	7.323526e-03	225367_at	3E	7.985154e-03
205603_s_at	3E	7.335321e-03	218871_x_at	3E	7.985154e-03
218052_s_at	3E	7.358954e-03	217739_s_at	3E	7.993653e-03
217913_at	3E	7.372494e-03	1559050_at	3E	8.001419e-03
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231252_at	3E	7.409842e-03	203897_at	3E	8.033601e-03
201302_at	3E	7.442794e-03	213038_at	3E	8.045943e-03
227942_s_at	3E	7.449067e-03	205480_s_at	3E	8.06194e-03
219639_x_at	3E	7.457118e-03	209765_at	3E	8.092237e-03
210266_s_at	3E	7.457118e-03	200925_at	3E	8.096031e-03
222744_s_at	3E	7.45963e-03	238148_s_at	3E	8.111429e-03
209342_s_at	3E	7.464746e-03	224814_at	3E	8.123717e-03
218362_s_at	3E	7.479984e-03	205198_s_at	3E	8.187071e-03
202696_at	3E	7.483461e-03	202566_s_at	3E	8.197688e-03
207391_s_at	3E	7.490412e-03	204789_at	3E	8.200116e-03
211783_s_at	3E	7.507103e-03	238851_at	3E	8.212248e-03
221039_s_at	3E	7.510898e-03	213042_s_at	3E	8.214888e-03
228291_s_at	3E	7.522184e-03	210240_s_at	3E	8.215753e-03
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226330_s_at	3E	7.529728e-03	200815_s_at	3E	8.256253e-03
213073_at	3E	7.529728e-03	212430_at	3E	8.256865e-03
200062_s_at	3E	7.529728e-03	1552264_a_at	3E	8.271564e-03

208 640 _at	3E	8.288675e-03		202100 _at	3E	9.00602e-03
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200752 _s_at	3E	8.32307e-03		209102 _s_at	3E	9.00602e-03
204214 _s_at	3E	8.38294e-03		201384 _s_at	3E	9.00602e-03
234423 _x_at	3E	8.390616e-03		203674 _at	3E	9.021706e-03
216306 _x_at	3E	8.393084e-03		239283 _at	3E	9.052037e-03
1552772 _at	3E	8.393084e-03		218571 _s_at	3E	9.053538e-03
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208759 _at	3E	8.40279e-03		222858 _s_at	3E	9.075593e-03
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210417 _s_at	3E	8.42595e-03		235626 _at	3E	9.151374e-03
203286 _at	3E	8.42927e-03		204897 _at	3E	9.154946e-03
217478 _s_at	3E	8.442561e-03		217806 _s_at	3E	9.170874e-03
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221891 _x_at	3E	8.496451e-03		223168 _at	3E	9.228515e-03
234140 _s_at	3E	8.51575e-03		225604 _s_at	3E	9.234385e-03
201455 _s_at	3E	8.52124e-03		201715 _s_at	3E	9.234385e-03
218829 _s_at	3E	8.527405e-03		45653 _at	3E	9.283544e-03
202856 _s_at	3E	8.527405e-03		225278 _at	3E	9.297633e-03
223297 _at	3E	8.53248e-03		203882 _at	3E	9.322064e-03
205988 _at	3E	8.53248e-03		200620 _at	3E	9.341651e-03
223084 _s_at	3E	8.539355e-03		203384 _s_at	3E	9.359413e-03
229743 _at	3E	8.539804e-03		203556 _at	3E	9.365183e-03
203379 _at	3E	8.546027e-03		202524 _s_at	3E	9.367497e-03
218249 _at	3E	8.554503e-03		218448 _at	3E	9.369194e-03
200632 _s_at	3E	8.559699e-03		217873 _at	3E	9.3931e-03
203057 _s_at	3E	8.573126e-03		210449 _x_at	3E	9.404953e-03
205798 _at	3E	8.579701e-03		205590 _at	3E	9.41656e-03
206621 _s_at	3E	8.586785e-03		212807 _s_at	3E	9.433854e-03
218364 _at	3E	8.593392e-03		212959 _s_at	3E	9.446234e-03
212316 _at	3E	8.607059e-03		201772 _at	3E	9.455008e-03
226529 _at	3E	8.622358e-03		205633 _s_at	3E	9.45959e-03
211824 _x_at	3E	8.637514e-03		200017 _at	3E	9.464305e-03
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210681 _s_at	3E	8.689433e-03		201863 _at	3E	9.469886e-03
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201254 _x_at	3E	8.723931e-03		203043 _at	3E	9.516502e-03
217886 _at	3E	8.746406e-03		219821 _s_at	3E	9.519634e-03
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207286 _at	3E	8.808171e-03		201500 _s_at	3E	9.547318e-03
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202492 _at	3E	8.863075e-03		205739 _x_at	3E	9.646657e-03
201641 _at	3E	8.863075e-03		222235 _s_at	3E	9.664623e-03
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209103 _s_at	3E	8.926132e-03		218809 _at	3E	9.712238e-03
219402 _s_at	3E	8.927209e-03		225466 _at	3E	9.72983e-03
212467 _at	3E	8.937242e-03		219938 _s_at	3E	9.743282e-03
238429 _at	3E	8.95689e-03		218913 _s_at	3E	9.756064e-03
38964 _r_at	3E	8.970152e-03		208703 _s_at	3E	9.804978e-03
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204169 _at	3E	8.97053e-03		203791 _at	3E	9.833434e-03
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38398 _at	3E	9.004685e-03		218548 _x_at	3E	9.83414e-03
225375 _at	3E	9.00602e-03		218223 _s_at	3E	9.848855e-03
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204411_at	3E	9.901705e-03		213312_at	3E	0.01
213322_at	3E	9.944842e-03		212625_at	3E	0.01
202215_s_at	3E	9.944973e-03		218055_s_at	3E	0.01
212485_at	3E	9.947532e-03		213588_x_at	3E	0.01
225969_at	3E	9.948041e-03		47069_at	3E	0.01
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212549_at	3E	9.965516e-03		217962_at	3E	0.01
225819_at	3E	9.973017e-03		219599_at	3E	0.01
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201739_at	3E	9.973017e-03		209537_at	3E	0.01
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203437_at	3E	0.01		219256_s_at	3E	0.01
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221647_s_at	3E	0.01		44702_at	3E	0.01
224356_x_at	3E	0.01		202263_at	3E	0.01
221080_s_at	3E	0.01		217934_x_at	3E	0.01
214937_x_at	3E	0.01		214339_s_at	3E	0.01
201963_at	3E	0.01		218478_s_at	3E	0.01
207713_s_at	3E	0.01		201722_s_at	3E	0.01
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224837_at	3E	0.01		219657_s_at	3E	0.01
202803_s_at	3E	0.01		205000_at	3E	0.01
200734_s_at	3E	0.01		200746_s_at	3E	0.01
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227131_at	3E	0.01		204487_s_at	3E	0.01
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204206_at	3E	0.01		223637_s_at	3E	0.01
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218812_s_at	3E	0.01		205401_at	3E	0.01
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213373_s_at	3E	0.01		203669_s_at	3E	0.01
212930_at	3E	0.01		1559034_at	3E	0.01
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220015_at	3E	0.01		218059_at	3E	0.01

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212318_at	3E	0.01	212752_at	3E	0.01
224369_s_at	3E	0.01	204620_s_at	3E	0.01
224690_at	3E	0.01	209593_s_at	3E	0.01
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207108_s_at	3F	4.974459e-03	201965_s_at	3F	8.687274e-03
213632_at	3F	5.018695e-03	202776_at	3F	8.70261e-03
219994_at	3F	5.029257e-03	212190_at	3F	8.930025e-03
218709_s_at	3F	5.032677e-03	59697_at	3F	9.002333e-03
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204127_at	3F	5.156487e-03	213061_s_at	3F	9.268325e-03
220753_s_at	3F	5.239447e-03	202556_s_at	3F	9.323285e-03
212078_s_at	3F	5.241343e-03	221155_x_at	3F	9.358071e-03
214318_s_at	3F	5.278753e-03	57703_at	3F	9.379893e-03
202364_at	3F	5.361052e-03	200602_at	3F	9.431195e-03
211043_s_at	3F	5.486064e-03	204372_s_at	3F	9.66289e-03
219724_s_at	3F	5.571795e-03	219792_at	3F	9.693977e-03

37424_at	3F	9.891932e-03	221483_s_at	3F	0.01
34408_at	3F	9.922385e-03	218586_at	3F	0.01
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201663_s_at	3F	0.01	204404_at	3F	0.01
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39248_at	3F	0.01	206134_at	3F	0.02

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684

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209253_at	3G	3.027982e-03
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204282 _s_at	3G	0.01		202198 _s_at	3G	0.01
203363 _s_at	3G	0.01		204732 _s_at	3G	0.01

Left				Right		
204493 _at	3G	%Tol		218733 _at	3G	0.01
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694

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201943_s_at	3H	0.02		218371_s_at	3H	0.02
208750_s_at	3H	0.02		218561_s_at	3H	0.02
212188_at	3H	0.02		206044_s_at	3H	0.02
208149_x_at	3H	0.02		205841_at	3H	0.02
202862_at	3H	0.02		212863_x_at	3H	0.03
221789_x_at	3H	0.02		213607_x_at	3H	0.03
214366_s_at	3H	0.02		206108_s_at	3H	0.03
217502_at	3H	0.02		221210_s__at	3H	0.03
203196_at	3H	0.02		218583_s_at	3H	0.03
203864_s_at	3H	0.02		218317_x__at	3H	0.03
206586_at	3H	0.02		219257_s_at	3H	0.03
214882_s_at	3H	0.02		208363_s_at	3H	0.03
214843_s_at	3H	0.02		213081_at	3H	0.03
212948_at	3H	0.02		208610_s_at	3H	0.03
204978_at	3H	0.02		218301_at	3H	0.03
208708_x_at	3H	0.02		202288_at	3H	0.03
212974_at	3H	0.02		218987_at	3H	0.03
213122_at	3H	0.02		207979_s_at	3H	0.03
2020]6_at	3H	0.02		218473_s_at	3H	0.03
216689_x_at	3H	0.02		205353_s_at	3H	0.03
202874_s_at	3H	0.02		208056_s_at	3H	0.03
209366_x_at	3H	0.02		218953_s__at	3H	0.03
205230_at	3H	0.02		209878_s_at	3H	0.03
214427_at	3H	0.02		37028_at	3H	0.03
201977_s_at	3H	0.02		202071_at	3H	0.03
220059_at	3H	0.02		218243_at	3H	0.03
201059_at	3H	0.02		206006_s_at	3H	0.03
214929_s_at	3H	0.02		202516_s_at	3H	0.03
200735__x_at	3H	0.02		218972_at	3H	0.03
217938_s_at	3H	0.02		160020_at	3H	0.03
38703_at	3H	0.02		54037_at	3H	0.03
203817_at	3H	0.02		201039_s_at	3H	0.03
208050__s_at	3H	0.02		218060_s_at	3H	0.03
213545_x_at	3H	0.02		218915_at	3H	0.03
218667_at	3H	0.02		201890_at	3H	0.03
53987_at	3H	0.02		207419_s_at	3H	0.03
211307_s_at	3H	0.02		202904_s_at	3H	0.03
220336_s_at	3H	0.02		211316_x_at	3H	0.03
202284_s_at	3H	0.02		219109_at	3H	0.03
219232_s_at	3H	0.02		202643_s_at	3H	0.03
210875_s_at	3H	0.02		202926_at	3H	0.03
206263_jat	3H	0.02		212102_s_at	3H	0.03
208876_s_at	3H	0.02		218350_s_at	3H	0.03
201050_at	3H	0.02		216550_x_at	3H	0.03
201048_x_at	3H	0.02		201468_s_at	3H	0.03
221695_s_at	3H	0.02		213022_s_at	3H	0.03

202354_s_at	-3H	0.03		203368_at	3H	0.04
201306_s_at	3H	0.03		201946_s_at	3H	0.04
218597_s_at	3H	0.03		217975_at	3H	0.04
221755_at	3H	0.03		203580_s_at	3H	0.04
205418_at	3H	0.03		204502_at	3H	0.04
217882_at	3H	0.03		205053_at	3H	0.04
217489_s_at	3H	0.03		201570_at	3H	0.04
204872_at	3H	0.03		202492_at	3H	0.04
220988_s_at	3H	0.03		208611_s_at	3H	0.04
218810_at	3H	0.03		215706_x_at	3H	0.04
204770_at	3H	0.03		201004_at	3H	0.04
211272_s_at	3H	0.03		218493_at	3H	0.04
1007_s_at	3H	0.03		205575_at	3H	0.04
212014_x_at	3H	0.03		206968_s_at	3H	0.04
210825_s_at	3H	0.03		212193_s_at	3H	0.04
203285_s_at	3H	0.03		201168_x_at	3H	0.04
219551_at	3H	0.03		206096_at	3H	0.04
222105_s_at	3H	0.03		220491_at	3H	0.04
202290_at	3H	0.03		205809_s_at	3H	0.04
211571_s_at	3H	0.03		218175_at	3H	0.04
214688_at	3H	0.03		201133_s_at	3H	0.04
212257_s_at	3H	0.03		37652_at	3H	0.04
213307_at	3H	0.03		203420_at	3H	0.04
201499_s_at	3H	0.03		213452_at	3H	0.04
39817_s_at	3H	0.03		211752_s_at	3H	0.04
220591_s_at	3H	0.03		218512_at	3H	0.04
204251_s_at	3H	0.03		49878_at	3H	0.04
203941_at	3H	0.03		202692_s_at	3H	0.04
218211_s_at	3H	0.03		202074_s_at	3H	0.04
221799_at	3H	0.03		213398_s_at	3H	0.04
203709_at	3H	0.03		217809_at	3H	0.04
212782_x_at	3H	0.03		208426_x_at	3H	0.04
2x6933_x_at	3H	0.03		220925_at	3H	0.04
201701_s_at	3H	0.03		206283_s_at	3H	0.04
219426_at	3H	0.03		217806_s_at	3H	0.04
201171_at	3H	0.03		204759_at	3H	0.04
216399_s_at	3H	0.03		219352_at	3H	0.04
212249_at	3H	0.03		214441_at	3H	0.04
212026_s_at	3H	0.03		207445_s_at	3H	0.04
201709_s_at	3H	0.03		205632_s_at	3H	0.04
221711_s_at	3H	0.03		210776_x_at	3H	0.04
213507_s_at	3H	0.03		218452_at	3H	0.04
202954_at	3H	0.03		336_at	3H	0.04
217478_s_at	3H	0.03		203529_at	3H	0.04
204098_at	3H	0.03		208886_at	3H	0.04
206398_s_at	3H	0.03		203890_s_at	3H	0.04
218872_at	3H	0.03		208791_at	3H	0.04
218774_at	3H	0.04		211833_s_at	3H	0.04
207460_at	3H	0.04		210449_x_at	3H	0.04
201267_s_at	3H	0.04		201453_x_at	3H	0.04
209301_at	3H	0.04		201930_at	3H	0.04
206494_s_at	3H	0.04		210757_x_at	3H	0.04
214472_at	3H	0.04		203322_at	3H	0.04
217299_s_at	3H	0.04		208852_s_at	3H	0.04
221893_s_at	3H	0.04		218066_at	3H	0.04
201365_at	3H	0.04		206966_s_at	3H	0.04
201971_s_at	3H	0.04		221790_s_at	3H	0.04
208594_x_at	3H	0.04		211769_x_at	3H	0.04
216341_s_at	3H	0.04		209728_at	31	6.44e-08
219191_s_at	3H	0.04		226837_at	31	2.23e-06
203944_x_at	3H	0.04		224377_s_at	31	8.76e-06
200727_s_at	3H	0.04		225589_at	31	1.07e-05
218659_at	3H	0.04		227220_at	31	1.42e-05
204490_s_at	3H	0.04		206429_at	31	1.65e-05

Probe		Value	Probe		Value
220397_at	3I	3.42e-05	209653_at	31	6.67e-04
202781_s_at	3I	3.46e-05	223834_at	31	7.32e-04
214338_at	3I	4.01e-05	201888_s_at	31	7.33e-04
224969_at	3I	4.12e-05	201580_s_at	31	7.34e-O4
209305_s_at	3I	4.22e-05	204507_s_at	31	7.57e-04
201490_s_at	3I	5.43e-05	205173_x_at	31	7.71e-04
205558_at	3I	7.51e-05	201192_s_at	31	7.8e-04
219307_at	3I	7.75e-05	204698_at	31	7.96e-04
1568856_at	3I	9.24e-05	205547_s_at	31	8.09e-04
202643_s_at	3I	9.55e-05	217761_at	31	8.17e-04
212758_s_at	3I	9.62e-05	203470_s_at	31	8.58e-04
212106_at	3I	1.07e-04	205671_s_at	31	9.64e-04
215230_x_at	3I	1.1e-04	222806_s_at	31	9.91e-04
211530_x_at	3I	1.29e-04	201120_s_at	31	9.97e-04
208047_s_at	3I	1.36e-04	211139_s_at	31	9.98e-04
222401_s_at	3I	1.37e-04	200664_s_at	31	1.0104e-03
209188_x_at	3I	1.41e-04	203017_s_at	31	1.013488e-03
225188_at	3I	1.54e-04	213373_s_at	31	1.025845e-03
212553_at	3I	1.59e-04	203885_at	31	1.042091e-03
233571_x_at	31	1.64e-04	205603_s_at	31	1.048481e-03
207549_x_at	31	1.7e-04	1568609_s_at	31	1.077832e-03
218999_at	31	1.74e-04	209475_at	31	1.105684e-03
201719_s_at	31	1.74e-04	202729_s_at	31	1.122465e-03
224956_at	31	1.76e-04	235121_at	31	1.170878e-03
210971_s_at	31	1.84e-04	224797_at	31	1.177637e-03
202459_s_at	31	2.27e-04	226537_at	31	1.189017e-03
204581_at	31	2.29e-04	224416_s_at	31	1.232364e-03
218559_s_at	31	2.32e-04	205750_at	31	1.236271e-03
209853_s_at	31	2.36e-04	222436_s_at	31	1.256479e-03
221770_at	31	2.46e-04	228217_s_at	31	1.269167e-03
223437_at	31	2.71e-04	208541_x_at	31	1.273347e-03
215719_x_at	31	2.75e-04	1553096_s_at	31	1.304149e-03
210145_at	31	2.99e-04	211330_s_at	31	1.307258e-03
224787_s_at	31	3.21e-04	201370_s_at	31	1.308184e-03
1552312_a_at	31	3.55e-04	205715_at	31	1.313228e-03
203178_at	31	3.76e-04	218883_s_at	31	1.322241e-03
44822_s_at	31	3.8e-04	219607_s_at	31	1.328232e-03
204493_at	31	3.8e-04	208707_at	31	1.343036e-03
1555021_a_at	31	3.83e-04	200796_s_at	31	1.347213e-03
216652_s_at	31	3.86e-04	214572_s_at	31	1.354042e-03
205960_at	31	4.0e-04	222224_at	31	1.372396e-03
54037_at	31	4.02e-04	219111_s_at	31	1.393832e-03
205067_at	31	4.04e-04	35626_at	31	1.411227e-03
203471_s_at	31	4.09e-04	201416_at	31	1.430808e-03
221724_s_at	31	4.13e-04	206222_at	31	1.468495e-03
238638_at	31	4.26e-04	219066_at	31	1.47293e-03
210904_s_at	31	4.28e-04	200669_s_at	31	1.472956e-03
214012_at	31	4.33e-04	218315_s_at	31	1.486619e-03
205127_at	31	4.81e-04	207446_at	31	1.486813e-03
216915_s_at	31	4.84e-04	202356_s_at	31	1.499649e-03
203029_s_at	31	4.86e-04	223584_s_at	31	1.517385e-03
41160_at	31	4.93e-04	207164_s_at	31	1.527344e-03
33304_at	31	4.94e-04	207761_s_at	31	1.536713e-03
216252_x_at	31	4.98e-04	207738_s_at	31	1.557217e-03
217974_at	31	5.0e-04	222636_at	31	1.567428e-03
201798_s_at	31	5.12e-04	202374_s_at	31	1.57783e-03
233878_s_at	31	5.26e-04	220235_s_at	31	1.667164e-03
39402_at	31	5.38e-04	1563088_a_at	31	1.712432e-03
211574_s_at	31	5.73e-04	202654_x_at	31	1.718588e-03
212380_at	31	5.87e-04	1555785_a_at	31	1.725784e-03
207872_s_at	31	5.96e-04	1562321_at	31	1.739242e-03
222651_s_at	31	6.03e-04	222867_s_at	31	1.749885e-03
211548_s_at	31	6.39e-04	217896_s_at	31	1.790882e-03
204780_s_at	31	6.51e-04	204882_at	31	1.826549e-03

227721 _at	31	1.835719e-03		226901 _at	31	3.116207e-03
200696 _s_at	31	1.844591e-03		233341 _s_at	31	3.119655e-03
227143 _s_at	31	1.851832e-03		209006 _s_at	31	3.146615e-03
207445 _s_at	31	1.866099e-03		213269 _at	31	3.162721e-03
220832 _at	31	1.869224e-03		202748 _at	31	3.164517e-03
202394 _s_at	31	1.888856e-03		37966 _at	31	3.210639e-03
224906 _at	31	1.889125e-03		203718 _at	31	3.249407e-03
223650 _s_at	31	1.900744e-03		233924 _s_at	31	3.257215e-03
227151 _at	31	1.917046e-03		204186 _s_at	31	3.281204e-03
221676 _s_at	31	1.94542e-03		205588 _s_at	31	3.291226e-03
200744 _s_at	31	1.949585e-03		206113 _s_at	31	3.297089e-03
222803 _at	31	1.950925e-03		220888 _s_at	31	3.363382e-03
204109 _s_at	31	1.962625e-03		201242 _s_at	31	3.45486e-03
226442 _at	31	1.977818e-03		37201 _at	31	3.50318e-03
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217475 _s_at	31	2.087916e-03		215159 _s_at	31	3.581894e-03
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214525 _x_at	31	2.16239e-03		221287 _at	31	3.669674e-03
207686 _s_at	31	2.168395e-03		210681 _s_at	31	3.714914e-03
201685 _s_at	31	2.169245e-03		203182 _s_at	31	3.71948e-03
208485 _x_at	31	2.180007e-03		223289 _s_at	31	3.745774e-03
396 _f_at	31	2.182078e-03		224785 _at	31	3.782238e-03
221875 _x_at	31	2.206706e-03		200898 _s_at	31	3.802543e-03
211612 _s_at	31	2.288366e-03		200798 _x_at	31	3.824433e-03
207791 _s_at	31	2.314259e-03		208591 _s_at	31	3.83323e-03
201235 _s_at	31	2.332144e-03		1570007 _at	31	3.870328e-03
211883 _x_at	31	2.334148e-03		205513 _at	31	3.890517e-03
234617 _at	31	2.341554e-03		221484 _at	31	3.918943e-03
211163 _s_at	31	2.347833e-03		217755 _at	31	3.928765e-03
50400 _at	31	2.353068e-03		211521 _s_at	31	3.961998e-03
202531 _at	31	2.366771e-03		1557227 _s_at	31	3.966268e-03
207654 _x_at	31	2.386664e-03		222670 _s_at	31	3.969354e-03
212254 _s_at	31	2.387875e-03		206342 _x_at	31	3.992279e-03
204184 _s_at	31	2.401686e-03		1552977 _a_at	31	4.033723e-03
219238 _at	31	2.414431e-03		202527 _s_at	31	4.054837e-03
223263 _s_at	31	2.458171e-03		207167 _at	31	4.065106e-03
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208121 _s_at	31	2.533772e-03		1553750 _a_at	31	4.095002e-03
202811 _at	31	2.557101e-03		200863 _s_at	31	4.105137e-03
211138 _s_at	31	2.572489e-03		202758 _s_at	31	4.117769e-03
228009 _x_at	31	2.619206e-03		203333 _at	31	4.152408e-03
209875 _s_at	31	2.689922e-03		217167 _x_at	31	4.185803e-03
237338 _at	31	2.712657e-03		211734 _s_at	31	4.196195e-03
203275 _at	31	2.721696e-03		207464 _at	31	4.208059e-03
203840 _at	31	2.724585e-03		202644 _s_at	31	4.224065e-03
210772 _at	31	2.745306e-03		204538 _x_at	31	4.235151e-03
201886 _at	31	2.747898e-03		210754 _s_at	31	4.305918e-03
202906 _s_at	31	2.763603e-03		208546 _x_at	31	4.367049e-03
206472 _s_at	31	2.7821e-03		209426 _s_at	31	4.416852e-03
222983 _s_at	31	2.783205e-03		223781 _x_at	31	4.463334e-03
219080 _s_at	31	2.796901e-03		219458 _s_at	31	4.495817e-03
217916 _s_at	31	2.816023e-03		221345 _at	31	4.649778e-03
204995 _at	31	2.816123e-03		217299 _s_at	31	4.678801e-03
211864 _s_at	31	2.84171e-03		204628 _s_at	31	4.688269e-03
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1554145 _a_at	31	2.886558e-03		219210 _s_at	31	4.729545e-03
214590 _s_at	31	2.984396e-03		209880 _s_at	31	4.731389e-03
220052 _s_at	31	3.005048e-03		202264 _s_at	31	4.732346e-03
209020 _at	31	3.022504e-03		225267 _at	31	4.734165e-03
217853 _at	31	3.0355e-03		210048 _at	31	4.767215e-03
204601 _at	31	3.056331e-03		213017 _at	31	4.776452e-03
203217 _s_at	31	3.090253e-03		1556009 _at	31	4.778687e-03
239598 _s_at	31	3.095681e-03		201179 _s_at	31	4.796855e-03

208398_s_at	31	4.796866e-03
214449_s_at	31	4.818841e-03
238587_at	31	4.829306e-03
208917_x_at	31	4.878881e-03
1554365_a_at	31	4.883853e-03
1552772_at	31	4.902834e-03
212286_at	31	4.957121e-03
224987_at	31	4.967841e-03
201008_s_at	31	4.99006e-03
218465_at	31	4.99833e-03
203433_at	31	5.014716e-03
208785_s_at	31	5.036542e-03
208996_s_at	31	5.039079e-03
1555167_s_at	31	5.05079e-03
1552472_a_at	31	5.056762e-03
210254_at	31	5.117829e-03
204706_at	31	5.163098e-03
225997_at	31	5.169015e-03
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209253_at	31	0.02		202101_s_at	31	0.02
200727_s_at	31	0.02		224749_at	31	0.02
224739_at	31	0.02		223419_at	31	0.02
209152_s_at	31	0.02		222955_s_at	31	0.02
38671_at	31	0.02		219358_s_at	31	0.02
1558014_s_at	31	0.02		207357_s_at	31	0.02
1553697_at	31	0.02		1568713_a_at	31	0.02
210846_x_at	31	0.02		220941_s_at	31	0.02
203961_at	31	0.02		203630_s_at	31	0.02
241353_s_at	31	0.02		223392_s_at	31	0.02
242284_at	31	0.02		219859_at	31	0.02
209286_at	31	0.02		207780_at	31	0.02
203194_s_at	31	0.02		208579_x_at	31	0.02
208960_s_at	31	0.02		204774_at	31	0.02
236313_at	31	0.02		214681_at	31	0.02
218321_x_at	31	0.02		212153_at	31	0.02
204328_at	31	0.02		210959_s_at	31	0.02
203313_s_at	31	0.02		217824_at	31	0.02
223143_s_at	31	0.02		212214_at	31	0.02
224309_s_at	31	0.02		202181_at	31	0.02
214553_s_at	31	0.02		204864_s_at	31	0.02
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224406_s_at	31	0.02		218847_at	31	0.02
218773_s_at	31	0.02		201044_x_at	31	0.02
219913_s_at	31	0.02		228547_at	31	0.02
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212462_at	31	0.02		216894_x_at	31	0.02
223221_at	31	0.02		240239_at	31	0.02
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232843_s_at	31	0.02		1568720_at	31	0.02

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223966_at	31	0.02	223474_at	31	0.03
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231973_s_at	31	0.02	202348_s_at	31	0.03
206686_at	31	0.02	202623_at	31	0.03
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221014_s_at	31	0.02	204521_at	31	0.03
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226862_at	31	0.02	201526_at	31	0.03

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201625 _s_at	3K	1.47524e-03
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Probe	Group	Value
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204254 _s_at	3K	4.393802e-03
201328 _at	3K	4.84355e-03
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218515 _at	3K	6.148687e-03
210264 _at	3K	7.00613e-03
221867 _at	3K	7.080955e-03
206834 _at	3K	7.65295e-03
219426 _at	3K	7.683749e-03
214762 _at	3K	7.837633e-03
218310 _at	3K	8.034698e-03
200953 _s_at	3K	8.493784e-03
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216945 _x_at	3L	5.04e-04
201694 _s_at	3L	5.33e-04
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204254 _s_at	3L	4.393802e-03
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221867 _at	3L	7.080955e-03
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214762 _at	3L	7.837633e-03
218310 _at	3L	8.034698e-03
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203297 _s_at	3L	0.01
210017 _at	3L	0.01
205748 _s_at	3L	0.01
201010 _s_at	3L	0.01
220306 _at	3L	0.01
204805 _s_at	3L	0.01
220800 _s_at	3L	0.01
205896 _at	3L	0.01
201627 _s_at	3L	0.01
204440 _at	3L	0.01

212914 _at 3L 0.01		
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219041 _s_at	3L	0.01
208026 _at	3L	0.01
222021 _x_at	3L	0.01
218033 _s_at	3L	0.01
214508 _x_at	3L	0.01
210458 _s_at	3L	0.02
221558 _s_at	3L	0.02
214855 _s_at	3L	0.02
35820 _at	3L	0.02
209841 _s_at	3L	0.02
214643 _x_at	3L	0.02
204980 _at	3L	0.02
208448 _x_at	3L	0.02
213153 _at	3L	0.02
218539 _at	3L	0.02
33646 _g_at	3L	0.02
201008 _s_at	3L	0.02
206765 _at	3L	0.02
47571 _at	3L	0.02
207907 _at	3L	0.02
204735 _at	3L	0.02
212737 _at	3L	0.02
221094 _s_at	3L	0.02
207687 _at	3L	0.03
209057 _x_at	3L	0.03
204038 _s_at	3L	0.03
210004 _at	3L	0.03
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204403 _x_at	3L	0.03
204577 _s_at	3L	0.03
218627 _at	3L	0.03
211383 _s_at	3L	0.03
205255 _x_at	3L	0.03
204520 _x_at	3L	0.03
216262 _s_at	3L	0.03
218476 _at	3L	0.03
201464 _x_at	3L	0.03
201697 _s_at	3L	0.03
202167 _s_at	3L	0.03
217618 _x_at	3L	0.03
209881 _s_at	3L	0.03
203434 _s_at	3L	0.04
212102 _s_at	3L	0.04
203060 _s_at	3L	0.04
209421 _at	3L	0.04
204652 _s_at	3L	0.04
218532 _s_at	3L	0.04
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217576 _x_at	3L	0.04
215990 _s_at	3L	0.04
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214945 _at	3L	0.04
203408 _s_at	3L	0.04
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209517 _s_at	3L	0.04
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201693 _s_at	3N	1.116156e-03
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220742 _s_at	3N	1.768548e-03
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220187 _at	3N	3.819191e-03
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204748 _at	3N	6.008283e-03
218515 _at	3N	6.148687e-03
221867 _at	3N	7.080955e-03
200953 _s_at	3N	8.493784e-03
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206488 _s_at	3N	8.955465e-03
216979 _at	3N	9.243684e-03
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221060 _s_at	3N	0.01
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222021 _x_at	3N	0.01
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214855 _s_at	3N	0.02
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214643 _x_at	3N	0.02
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218532 _s_at	3N	0.04
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209892 _at	3N	0.04		201108 _s_at	3P	3.941696e-03
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217956 _s_at	3P	2.01e-04		206618 _at	3P	4.951513e-03
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210742 _at	3P	3.46e-04		202458 _at	3P	5.028416e-03
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226168 _at	3P	4.36e-04		200948 _at	3P	5.07136e-03
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205171 _at	3P	5.16e-04		35150 _at	3P	5.350011e-03
222633 _at	3P	5.7e-04		227548_ at	3P	5.362002e-03
224800 _at	3P	6.48e-04		AFFX-HUMGAPDH/		
208961 _s_at	3P	6.85e-04		M33197	3P	5.363142e-03
218793 _s_at	3P	8.33e-04		238356 _at	3P	5.43878e-03
203573 _s_at	3P	8.51e-04		225507 _at	3P	5.477105e-03
222745 _s_at	3P	8.8e-04		222199 _s_at	3P	5.558808e-03
201456 _s_at	3P	1.01578e-03		240413 _at	3P	5.71187e-03
AFFX-HUMGAPDH/				219041 _s_at	3P	5.752768e-03
M33197	3P	1.194136e-03		203481 _at	3P	5.757702e-03
226952 _at	3P	1.254263e-03		213551 _x_at	3P	5.815369e-03
218313 _s_at	3P	1.268675e-03		205292 _s_at	3P	6.130072e-03
235568 _at	3P	1.288626e-03		200065 _s_at	3P	6.218724e-03
211727 _s_at	3P	1.319217e-03		65493 _at	3P	6.432789e-03
225819 _at	3P	1.353797e-03		219342 _at	3P	6.71928e-03
200823 _x_at	3P	1.379915e-03		207515 _s_at	3P	7.201661e-03
242814 _at	3P	1.468964e-03		204405 _x_at	3P	7.383409e-03
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238077 _at	3P	1.761137e-03		212076 _at	3P	7.529746e-03
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226963 _at	3P	2.995428e-03		205855 _at	3P	8.894484e-03
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214590 _s_at	3P	3.058209e-03		206536 _s_at	3P	9.006068e-03
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212825 _at	3P	0.03
221532 _s_at	3P	0.03
230297 _x_at	3P	0.03
229804 _x_at	3P	0.04
203182 _s_at	3P	0.04
201604 _s_at	3P	0.04
207855 _s_at	3P	0.04
205668 _at	3P	0.04
221277 _s_at	3P	0.04
219256 _s_at	3P	0.04
204352 _at	3P	0.04
205036 _at	3P	0.04

713

201268 _at	3P	0.04
210543 _s_at	3P	0.04
224808 _s_at	3P	0.04
207121 _s_at	3P	0.04
205882 _x_at	3P	0.04
224736 _at	3P	0.04
208787 _at	3P	0.04
239186 _at	3P	0.04
218655 _s_at	3P	0.04
214550 _s_at	3P	0.04
210288 _at	3P	0.04
237107 _at	3P	0.04
210567 _s_at	3P	0.04
231288 _at	3P	0.04
224665 _at	3P	0.04
225988 _at	3P	0.04
204049 _s_at	3P	0.04
208644 _at	3P	0.04
227138 _at	3P	0.04
232683 _s_at	3P	0.04
218336 _at	3P	0.04
229322 _at	3P	0.04
201730 _s_at	3P	0.04
224655 _at	3P	0.04
224369 _s_at	3Q	6.68e-05
221582 _at	3Q	1.85e-04
212718 _at	3Q	2.37e-04
230243 _at	3Q	2.91e-04
202638 _s_at	3Q	4.65e-04
202471 _s_at	3Q	6.18e-04
200046 _at	3Q	6.37e-04
204806 _x_at	3Q	7.43e-04
208337 _x_at	3Q	8.08e-04
91684 _g_at	3Q	8.64e-04
202545 _at	3Q	8.9e-04
205292 _s_at	3Q	1.028944e-03
215606 _s_at	3Q	1.075892e-03
212763 _at	3Q	1.17205e-03
210428 _s_at	3Q	1.172917e-03
202910 _s_at	3Q	1.333828e-03
244498 _x_at	3Q	1.435389e-03
243750 _x_at	3Q	1.478026e-03
218223 _s_at	3Q	1.479659e-03
204252 _at	3Q	1.78859e-03
222729 _at	3Q	1.948547e-03
60471 _at	3Q	2.334388e-03
222516 _at	3Q	2.343346e-03
212140 _at	3Q	2.377205e-03
200712 _s_at	3Q	2.444697e-03
211404 _s_at	3Q	2.556026e-03
217992 _s_at	3Q	2.60699e-03
220015 _at	3Q	3.178883e-03
234919 _s_at	3Q	3.334616e-03
204209 _at	3Q	3.442004e-03
200867 _at	3Q	3.467121e-03
222065 _s_at	3Q	3.490721e-03
201954 _at	3Q	3.560819e-03
202803 _s_at	3Q	3.630412e-03
218972 _at	3Q	3.809121e-03
220944 _at	3Q	3.887448e-03
226630 _at	3Q	3.992608e-03
216041 _x_at	3Q	4.177596e-03
204109 _s_at	3Q	4.254184e-03
217020 _at	3Q	4.479149e-03
201094 _at	3Q	4.524903e-03
209067 _s_at	3Q	4.580566e-03
214844 _s_at	3Q	4.662536e-03
40420 _at	3Q	4.791452e-03
208438 _s_at	3Q	5.164089e-03
206095 _s_at	3Q	5.236653e-03
209761 _s_at	3Q	5.25896e-03
AFFX-HSAC0 7/		
X00351 _5	3Q	5.259211e-03
201157 _s_at	3Q	5.466996e-03
225043 _at	3Q	5.478715e-03
225058 _at	3Q	5.518419e-03
222915 _s_at	3Q	5.549285e-03
203332 _s_at	3Q	5.789461e~03
1552667 _a_at	3Q	5.849357e-03
213064 _at	3Q	6.343167e-03
200684 _s_at	3Q	6.431206e-03
208994 _s_at	3Q	6.495645e-03
202599 _s_at	3Q	6.689945e-03
214736 _s_at	3Q	6.704885e-03
226448 _at	3Q	6.8259e-03
213526 _s_at	3Q	7.048381e-03
201385 _at	3Q	7.167109e-03
227100 _at	3Q	7.173906e-03
208815 _x_at	3Q	7.293509e-03
208702 _x_at	3Q	7.294925e-03
212833 _at	3Q	7.3307e-03
32099 _at	3Q	7.399579e-03
214196 _s_at	3Q	7.594095e-03
211924 _s_at	3Q	7.7605e-03
233819 _s_at	3Q	7.860771e-03
201933 _at	3Q	7.930456e-03
211135 _x_at	3Q	8.023124e-03
205608 _s_at	3Q	8.037387e-03
218961 _s_at	3Q	8.119657e-03
91682 _at	3Q	8.182206e-03
202675 _at	3Q	8.205811e-03
205212 _s_at	3Q	8.258769e-03
221419 _s_at	3Q	8.307014e-03
221808 _at	3Q	8.595504e-03
218570 _at	3Q	8.81458e-03
203113 _s_at	3Q	8.81582e-03
1553644 _at	3Q	8.834419e-03
200654 _at	3Q	8.918234e-03
217371 _s_at	3Q	8.991858e-03
206110 _at	3Q	9.079478e-03
1552942 _at	3Q	9.253123e-03
211133 _x_at	3Q	9.254602e-03
121 _at	3Q	9.280429e-03
217377 _x_at	3Q	9.334989e-03
210395 _x_at	3Q	9.591381e-03
201277 _s_at	3Q	9.641971e-03
211936 _at	3Q	9.733779e-03
204172 _at	3Q	0.01
209835 _x_at	3Q	0.01
212302 _at	3Q	0.01
AFFX-HSAC0 7/		
X00351 _M	3Q	0.01
201118 _at	3Q	0.01
226861 _at	3Q	0.01
222394 _at	3Q	0.01
200797 _s_at	3Q	0.01
203142 _s_at	3Q	0.01
218211 _s_at	3Q	0.01

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202747_s_at	3Q	0.01
212168_at	3Q	0.01
220237_at	3Q	0.01
208594_x_at	3Q	0.01
211926_s_at	3Q	0.01
202880_s_at	3Q	0.01
210301_at	3Q	0.01
201583_s_at	3Q	0.01
205686_s_at	3Q	0.01
218633_x_at	3Q	0.01
60528_at	3Q	0.01
203388_at	3Q	0.01
209425_at	3Q	0.01
204857_at	3Q	0.01
207303_at	3Q	0.01
216205_s_at	3Q	0.01
200656_s_at	3Q	0.01
226219_at	3Q	0.01
202443_x_at	3Q	0.01
238701_x_at	3Q	0.01
216054_x_at	3Q	0.01
203964_at	3Q	0.01
207697_x_at	3Q	0.01
222613_at	3Q	0.01
201369_s_at	3Q	0.01
200817_x_at	3Q	0.01
211997_x_at	3Q	0.01
208750_s_at	3Q	0.01
206792_x_at	3Q	0.01
1555349_a_at	3Q	0.01
218147_s_at	3Q	0.01
208825_x_at	3Q	0.01
200990_jat	3Q	0.01
212175_s_at	3Q	0.01
228516_at	3Q	0.01
217788_s_at	3Q	0.01
200682_s_at	3Q	0.01
235507_at	3Q	0.01
226642_s_at	3Q	0.01
217985_s_at	3Q	0.01
218989_x_at	3Q	0.01
213046_at	3Q	0.01
209083_at	3Q	0.01
227138_at	3Q	0.01
200828_s_at	3Q	0.01
20137 6_s_at	3Q	0.01
202918_s_at	3Q	0.01
213039_at	3Q	0.01
212330_at	3Q	0.01
211783_s_at	3Q	0.01
216993_s_at	3Q	0.01
226330_s_at	3Q	0.01
209007_s_at	3Q	0.01
79005_at	3Q	0.01
3182 β_at	3Q	0.01
37950_at	3Q	0.01
211251_x_at	3Q	0.01
201534_s_at	3Q	0.01
216652_s_at	3Q	0.01
202173_s_at	3Q	0.01
219165_at	3Q	0.01
221437_s_at	3Q	0.01
225614_at	3Q	0.01
213738_s_at	3Q	0.01
201967_at	3Q	0.01
221744_at	3Q	0.01
201475_x_at	3Q	0.01
225314_at	3Q	0.01
210579_s_at	3Q	0.01
222473_s_at	3Q	0.01
200781_s_at	3Q	0.02
209890_at	3Q	0.02
204861_s_at	3Q	0.02
214582_at	3Q	0.02
219180_s_at	3Q	0.02
212159_x_at	3Q	0.02
235388_at	3Q	0.02
218724_s_at	3Q	0.02
201231_s_at	3Q	0.02
220796_x_at	3Q	0.02
225819_at	3Q	0.02
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1554770_x_at	3Q	0.02
226283_at	3Q	0.02
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219206_x_at	3Q	0.02
220661_s_at	3Q	0.02
31845_at	3Q	0.02
219282_s_at	3Q	0.02
201784_s_at	3Q	0.02
209134_s_at	3Q	0.02
217981_s_at	3Q	0.02
218803_at	3Q	0.02
217978_s_at	3Q	0.02
216547_at	3Q	0.02
219672_at	3Q	0.02
200674_s_at	3Q	0.02
208729_x_at	3Q	0.02
209798_at	3Q	0.02
203973_s_at	3Q	0.02
217811_at	3Q	0.02
212213_x_at	3Q	0.02
225319_s_at	3Q	0.02
208692_at	3Q	0.02
221565_s_at	3Q	0.02
202623_at	3Q	0.02
225976_at	3Q	0.02
212312_at	3Q	0.02
212451_at	3Q	0.02
207289_at	3Q	0.02
223303_at	3Q	0.02
225081_s_at	3Q	0.02
219690_at	3Q	0.02
218514_at	3Q	0.02
209065_at	3Q	0.02
210504_at	3Q	0.02
218018_at	3Q	0.02
218649_x_at	3Q	0.02
218324_s_at	3Q	0.02
208961_s_at	3Q	0.02
202757_at	3Q	0.02
AFFX-hum_alu_at	3Q	0.02
201635_s_at	3Q	0.02

213671_s_at	3Q	0.02		207674_at	3Q	0.04
203401_at	3Q	0.02		216997_x_at	3Q	0.04
202779_s_at	3Q	0.02		232914_s_at	3Q	0.04
231747_at	3Q	0.02		217526_at	3Q	0.04
208812_x_at	3Q	0.02		224391_s_at	3Q	0.04
202915_s_at	3Q	0.02		1554240_a_at	3Q	0.04
221006_s_at	3Q	0.02		211971_s_at	3Q	0.04
224859_at	3Q	0.02		208610_s_at	3Q	0.04
201743_at	3Q	0.02		1558136_s_at	3Q	0.04
229563_s_at	3Q	0.02		207535_s_at	3Q	0.04
204203_at	3Q	0.03		221619_s_at	3Q	0.04
241955_at	3Q	0.03		201526_at	3Q	0.04
202127_at	3Q	0.03		203309_s_at	3Q	0.04
218512_at	3Q	0.03		218367_x_at	3Q	0.04
205917_at	3Q	0.03		238562_at	3Q	0.04
210561_s_at	3Q	0.03		202422_s_at	3Q	0.04
211714_x_at	3Q	0.03		217990_at	3Q	0.04
201858_s_at	3Q	0.03		230572_at	3Q	0.04
57163_at	3Q	0.03		200754_x_at	3Q	0.04
214054_at	3Q	0.03		220960_x_at	3Q	0.04
1554899_s_at	3Q	0.03		225899_x_at	3Q	0.04
211004_s_at	3Q	0.03		214583_at	3Q	0.04
211521_s_at	3Q	0.03		201731_s_at	3Q	0.04
1559883_s_at	3Q	0.03		204912_at	3Q	0.04
203239_s_at	3Q	0.03		209906_at	3Q	0.04
205707_at	3Q	0.03		200611_s_at	3Q	0.04
222975_s_at	3Q	0.03		209619_at	3Q	0.04
233467_s_at	3Q	0.03		218473_s_at	3Q	0.04
207908_at	3Q	0.03		208933_s_at	3Q	0.04
201257_x_at	3Q	0.03		206011_at	3Q	0.04
223283_s_at	3Q	0.03		210317_s_at	3Q	0.04
204848_x_at	3Q	0.03		210944_s_a_at	3Q	0.04
217724_at	3Q	0.03		218797_s_at	3Q	0.04
243_g_at	3Q	0.03		203913_s_at	3Q	0.04
218919_at	3Q	0.03		200012_x_at	3Q	0.04
225649_s_at	3Q	0.03		224369_s_at	3R	6.68e-05
213957_s_at	3Q	0.03		221582_at	3R	1.85e-04
200853_-at	3Q	0.03		212718_at	3R	2.37e-04
231540_at	3Q	0.03		230243_at	3R	2.91e-04
204336_s_at	3Q	0.03		202638_s_at	3R	4.65e-04
201950_x_at	3Q	0.03		202471_s_at	3R	6.18e-04
AFFX-HUMGAPDH/				200046_at	3R	6.37e-04
M33197	3Q	0.03		204806_x_at	3R	7.43e-04
202719_s_at	3Q	0.03		208137_x_at	3R	8.08e-04
218111_s_at	3Q	0.03		91684_g_at	3R	8.64e-04
223637_s_at	3Q	0.03		202545_at	3R	8.9e-04
226994_at	3Q	0.03		205292_s_at	3R	1.028944e-03
205609_at	3Q	0.03		215606_s_at	3R	1.075892e-03
225392_at	3Q	0.03		212763_at	3R	1.17205e-03
222623_s_at	3Q	0.03		210428_s_at	3R	1.172917e-03
226378_s_at	3Q	0.03		202910_s_at	3R	1.333828e-03
206586_at	3Q	0.03		244498_x_at	3R	1.435389e-03
200866_s_at	3Q	0.03		243750_x_at	3R	1.478026e-03
201552_at	3Q	0.03		218223_s_at	3R	1.479659e-03
216689_x_at	3Q	0.03		60471_at	3R	2.334388e-03
205842_s_at	3Q	0.03		212140_at	3R	2.377205e-03
220980_s_at	3Q	0.03		217992_s_at	3R	2.60699e-03
208684_at	3Q	0.03		220015_at	3R	3.178883e-03
201178_at	3Q	0.04		200867_at	3R	3.467121e-03
218198_at	3Q	0.04		222065_s_at	3R	3.490721e-03
200964_at	3Q	0.04		201954_at	3R	3.560819e-03
202408_s_at	3Q	0.04		202803_s_at	3R	3.630412e-03
203900_at	3Q	0.04		225981_at	3R	3.748011e-03
209694_at	3Q	0.04		226630_at	3R	3.992608e-03

202469_s_at	3R	3.693154e-03	208594 _x_at	3R	0.01
216041_x_at	3R	4.177596e-03	21192 6_s_at	3R	0.01
204109_s_at	3R	4.254184e-03	202880 _s_at	3R	0.01
1552386_at	3R	4.254628e-03	218519 _at	3R	0.01
217020_at	3R	4.479149e-03	201583 _s_at	3R	0.01
201094__at	3R	4.524903e-03	1569371 _at	3R	0.01
209067_s_at	3R	4.580566e-03	60528 _at	3R	0.01
40420_at	3R	4.791452e-03	38671 _at	3R	0.01
208901_s_at	3R	4.930879e-03	207769 _s_at	3R	0.01
208438_s_at	3R	5.164089e-03	203388 _at	3R	0.01
206095__s_at	3R	5.236653e-03	209425 _at	3R	0.01
AFFX-HSACO 7 /			204857 _at	3R	0.01
X00351_5	3R	5.259211e-03	207303 _at	3R	0.01
204407_at	3R	5.342017e-03	216205_s_at	3R	0.01
225043_at	3R	5.478715e-03	200656 _s_at	3R	0.01
225058_at	3R	5.518419e-03	226219 _at	3R	0.01
222915_s_at	3R	5.549285e-03	202443 _x_at	3R	0.01
1552667_a_at	3R	5.849357e-03	204565 _at	3R	0.01
200684_s_at	3R	6.431206e-03	238701 _x_at	3R	0.01
214 736_s_at	3R	6.704885e-03	216054 _x_at	3R	0.01
226448_at	3R	6.8259e-03	207697 _x_at	3R	0.01
227100_at	3R	7.173906e-03	222613 _at	3R	0.01
208815__x_at	3R	7.293509e-03	201369 _s_at	3R	0.01
212833_at	3R	7.3307e-03	200817_x_at	3R	0.01
32099_at	3R	7.399579e-03	211997 _x_at	3R	0.01
214196_s_at	3R	7.594095e-03	208750 _s_at	3R	0.01
229510_at	3R	7.667683e-03	206792_x _at	3R	0.01
211924_s_at	3R	7.7605e-03	1555349 _a_at	3R	0.01
201933_at	3R	7.930456e-03	211571 _s_at	3R	0.01
211135_x_at	3R	8.023124e-03	218147 _s_at	3R	0.01
205608_s_at	3R	8.037387e-03	1554678 _s_at	3R	0.01
218961_s_at	3R	8.119657e-03	208825_x _at	3R	0.01
91682_at	3R	8.182206e-03	200625 _s_at	3R	0.01
202675_at	3R	8.205811e-03	200990 _at	3R	0.01
205212_s_at	3R	8.258769e-03	228516 _at	3R	0.01
221419_s_at	3R	8.307014e-03	226642 _s_at	3R	0.01
221808_at	3R	8.595504e-03	223014 _at	3R	0.01
218570_at	3R	8.81458e-03	213046 _at	3R	0.01
203113_s_at	3R	8.81582e-03	209083 _at	3R	0.01
1553644_at	3R	8.834419e-03	217232_x _at	3R	0.01
211097_s_at	3R	8.85893e-03	201376 _s_at	3R	0.01
200654_at	3R	8.918234e-03	213453 _x_at	3R	0.01
217371_s_at	3R	8.991858e-03	213039 _at	3R	0.01
206110_at	3R	9.079478e-03	212330 _at	3R	0.01
1552942_at	3R	9.253123e-03	211783 _s_at	3R	0.01
211133_x_at	3R	9.254602e-03	209007 _s_at	3R	0.01
121_at	3R	9.280429e-03	79005 _at	3R	0.01
204 634_at	3R	9.320938e-03	31826 _at	3R	0.01
217377__x_at	3R	9.334989e-03	37950_at	3R	0.01
210395_x_at	3R	9.591381e-03	201534 _s_at	3R	0.01
204172_at	3R	0.01	201783 _s_at	3R	0.01
21444 9_s_at	3R	0.01	216652 _s_at	3R	0.01
209835_x_at	3R	0.01	200802 _at	3R	0.01
AFFX-HSAC07/			202583 _s_at	3R	0.01
X00351_M	3R	0.01	202917 _s_at	3R	0.01
201118_at	3R	0.01	202659 _at	3R	0.01
226861_at	3R	0.01	202173 _s_at	3R	0.01
200797_s_at	3R	0.01	219165 _at	3R	0.01
203142_s_at	3R	0.01	203258 _at	3R	0.01
1559942_at	3R	0.01	225614 _at	3R	0.01
200963_x_at	3R	0.01	213738 _s_at	3R	0.01
218211_s_at	3R	0.01	201967 _at	3R	0.01
222587_s_at	3R	0.01	221744 _at	3R	0.01
202747 _s_at	3R	0.01	201475 _x_at	3R	0.01

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209890_at	3R	0.02
204861_s_at	3R	0.02
214582_at	3R	0.02
235388_at	3R	0.02
205074_at	3R	0.02
217356_s_at	3R	0.02
218724_s_at	3R	0.02
201231_s_at	3R	0.02
220796_x_at	3R	0.02
225819_at	3R	0.02
71933_at	3R	0.02
1554770_x_at	3R	0.02
226283_at	3R	0.02
201079_at	3R	0.02
224693_at	3R	0.02
20121 β_at	3R	0.02
235327_x_at	3R	0.02
219206_x_at	3R	0.02
220661_s_at	3R	0.02
236027_at	3R	0.02
31845_at	3R	0.02
201784_s_at	3R	0.02
209134_s_at	3R	0.02
209069_s_at	3R	0.02
218803_at	3R	0.02
217978_s_at	3R	0.02
200674_s_at	3R	0.02
208729_x_at	3R	0.02
203973_s_at	3R	0.02
208692_at	3R	0.02
212160_at	3R	0.02
211015_s_at	3R	0.02
221565_s_at	3R	0.02
227388_at	3R	0.02
212312_at	3R	0.02
207289_at	3R	0.02
223303_at	3R	0.02
204351_at	3R	0.02
219690_at	3R	0.02
210504_at	3R	0.02
202355_s_at	3R	0.02
218649_x_at	3R	0.02
208961_s_at	3R	0.02
202757_at	3R	0.02
209188_x_at	3R	0.02
AFFX-hum_alu_at	3R	0.02
201584_s_at	3R	0.02
213671_s__at	3R	0.02
208997_s_at	3R	0.02
202779_s_at	3R	0.02
208812_x_at	3R	0.02
202915_s_at	3R	0.02
218298_s_at	3R	0.02
224859_at	3R	0.02
201743_at	3R	0.02
229563_s__at	3R	0.02
218454_at	3R	0.02
210561_s_at	3R	0.03
211714_x_at	3R	0.03
201858_s_at	3R	0.03
57163_at	3R	0.03
214054_at	3R	0.03
242139_s_at	3R	0.03
201214_s_at	3R	0.03
211004_s_at	3R	0.03
211521_s_at	3R	0.03
223474_at	3R	0.03
1559882!_s_at	3R	0.03
203239_s_at	3R	0.03
205707_at	3R	0.03
214369_s_at	3R	0.03
200004_at	3R	0.03
204978_at	3R	0.03
233467_s_at	3R	0.03
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207908~_at	3R	0.03
201257_x_at	3R	0.03
223283_s_at	3R	0.03
204848_x_at	3R	0.03
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225649_s_at	3R	0.03
213957_s_at	3R	0.03
200853_at	3R	0.03
204336_s_at	3R	0.03
201950_x_at	3R	0.03
AFFX-HUMGAPDH/ M33197	3R	0.03
212014_x_at	3R	0.03
218111_s_at	3R	0.03
214049_x_at	3R	0.03
223637_s_at	3R	0.03
226994_at	3R	0.03
222623_s_at	3R	0.03
206586_at	3R	0.03
200866_s_at	3R	0.03
216689_x_at	3R	0.03
205842_s_at	3R	0.03
220980_s_at	3R	0.03
208684_at	3R	0.03
213607_x_at	3R	0.03
218249_at	3R	0.03
201178_at	3R	0.04
218198_at	3R	0.04
212869_x_at	3R	0.04
200964_at	3R	0.04
204050_s_at	3R	0.04
206222_at	3R	0.04
208018_s_at	3R	0.04
203900_at	3R	0.04
209694_at	3R	0.04
211316_x_at	3R	0.04
207674_at	3R	0.04
232914_s_at	3R	0.04
217526_at	3R	0.04
202510_s_at	3R	0.04
212194_s_at	3R	0.04
209265_s_at	3R	0.04
1554240_a_at	3R	0.04
208610_s_at	3R	0.04
202484_s_at	3R	0.04
1558136_s_at	3R	0.04
207535_s_at	3R	0.04
201526_at	3R	0.04
203309_s_at	3R	0.04
218367_x_at	3R	0.04
230572_at	3R	0.04

200754_x_at	3R	0.04	222401_s_at	4B	1.37e-04
220960_x_at	3R	0.04	204376_at	4B	1.41e-O4
1553297_a_at	3R	0.04	203277_at	4B	1.41e-04
213507_s_at	3R	0.04	209188_x__at	4B	1.41e-04
225899_x_at	3R	0.04	230026__at	4B	1.49e-04
208773_s_at	3R	0.04	226820_at	4B	1.52e-04
214583_at	3R	0.04	204507_s_at	4B	1.52e-04
201731_s_at	3R	0.04	206841_at	4B	1.57e-04
204912_at	3R	0.04	201242_s_at	4B	1.58e-04
209906_at	3R	0.04	212553_at	4B	1.59e-04
200611_s_at	3R	0.04	233571_x_at	4B	1.64e-04
209619_at	3R	0.04	207549_x_at	4B	1.7e-04
218473_s_at	3R	0.04	201719_s_at	4B	1.74e-04
208933_s_at	3R	0.04	224956_at	4B	1.76e-04
210317_s_at	3R	0.04	218883_s__at	4B	1.81e-04
210944_s_at	3R	0.04	210971_s_at	4B	1.84e-04
218797_s_at	3R	0.04	203470_s_at	4B	1.86e-04
200801_x_at	3R	0.04	228859_at	4B	1.88e-04
203913_s_at	3R	0.04	220012_at	4B	1.91e-04
200012_x_at	3R	0.04	203921_at	4B	1.96e-04
209728_at	4B	6.44e-08	205547_s_at	4B	2.05e-04
1562321_at	4B	7.01e-07	219787_s_at	4B	2.17e-04
209441_at	4B	2.16e-06	205096_at	4B	2.22e-04
226837_at	4B	2.23e-06	202459__s_at	4B	2.27e-04
224969_at	4B	4.53e-06	204581_at	4B	2.29e-04
215606_s_at	4B	6.2e-06	220091_at	4B	2.33e-04
205960_at	4B	7.44e-06	209853_s_at	4B	2.36e-04
224377_s_at	4B	8.76e-06	203471_s__at	4B	2.4e-04
225589_at	4B	1.07e-05	221770_at	4B	2.46e-04
227220_at	4B	1.42e-05	38671__at	4B	2.49e-04
206429_at	4B	1.65e-05	211330_s_at	4B	2.53e-04
202767_at	4B	1.8e-05	223437_at	4B	2.71e-04
215230_x_at	4B	3.26e-05	215719_x_at	4B	2.75e-04
220397_at	4B	3.42e-05	224495_at	4B	2.76e-04
202781_s_at	4B	3.46e-05	206365__at	4B	2.76e-04
220785_at	4B	3.93e-05	213122_at	4B	2.77e-04
205067_at	4B	3.98e-05	210145_at	4B	2.99e-04
214338_at	4B	4.01e-05	206739_at	4B	3.11e-04
209305_s_at	4B	4.22e-05	233341_s_at	4B	3.14e-04
221724_s_at	4B	4.29e-05	224787_s_at	4B	3.21e-04
220570_at	4B	4.77e-05	1555021_a_at	4B	3.28e-04
201417_at	4B	4.85e-05	223637_s_at	4B	3.39e-04
203440_at	4B	5.01e-05	217761_at	4B	3.51e-04
201490_s_at	4B	5.43e-05	220784_s_at	4B	3.51e-04
225188_at	4B	5.68e-05	45288_at	4B	3.55e-04
222858_s_at	4B	6.56e-05	1552312_a_at	4B	3.55e-04
218199_s_at	4B	6.63e-05	1556552_a_at	4B	3.62e-04
205558_at	4B	7.51e-05	206995_x_at	4B	3.68e-04
219307_at	4B	7.75e-05	223620_at	4B	3.69e-04
203178_at	4B	8.13e-05	200647_x_at	4B	3.76e-04
242727_at	4B	8.36e-05	44822_s_at	4B	3.8e-04
39402_at	4B	8.85e-05	204493_at	4B	3.8e-04
1568856_at	4B	9.24e-05	207036_x_at	4B	3.8e-04
202643_s_at	4B	9.55e-05	1557056_at	4B	3.85e-04
212758_s_at	4B	9.62e-05	216652_s_at	4B	3.86e-04
205715_at	4B	1.03e-04	54037_at	4B	4.02e-04
204787_at	4B	1.05e-04	218754_at	4B	4.02e-04
212106_at	4B	1.07e-04	203274_at	4B	4.02e-04
244190_at	4B	1.13e-04	209702_at	4B	4.02e-04
218559_s_at	4B	1.13e-04	238638_at	4B	4.26e-04
211530_x_at	4B	1.29e-04	210904_s_at	4B	4.28e-04
223946_at	4B	1.31e-04	1568590_at	4B	4.29e-04
208047_s_at	4B	1.36e-04	214012_at	4B	4.33e-04
218999_at	4B	1.37e-04	201416_at	4B	4.36e-04

204127_at	4B	4.4e-04
212254_s_at	4B	4.58e-04
225002_s_at	4B	4.59e-04
209008_x_at	4B	4.59e-04
212527_at	4B	4.82e-04
216915_s_at	4B	4.84e-04
220744_s_at	4B	4.85e-04
203029_s_at	4B	4.86e-04
204087_s_at	4B	4.9e-04
202758_s_at	4B	4.9e-04
41160_at	4B	4.93e-04
33304_at	4B	4.94e-04
225837_at	4B	4.96e-04
219947_at	4B	4.96e-04
216252_x_at	4B	4.98e-04
217974_at	4B	5.0e-04
226639_at	4B	5.07e-04
201798_s_at	4B	5.12e-04
233878_s_at	4B	5.26e-04
209331_s_at	4B	5.28e-04
204011_at	4B	5.45e-04
226767_s_at	4B	5.63e-04
219613_s_at	4B	5.63e-04
211574_s_at	4B	5.73e-04
212380_at	4B	5.87e-04
211734_s_at	4B	5.89e-04
229759_s_at	4B	5.95e-04
1555728_a_at	4B	5.95e-04
207872_s_at	4B	5.96e-04
222851_s_at	4B	6.03e-04
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226614_s_at	4B	6.35e-04
212235_at	4B	6.35e-04
203104_at	4B	6.35e-04
219111_s_at	4B	6.39e-04
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204780_s_at	4B	6.51e-04
213378_s_at	4B	6.67e-04
209653_at	4B	6.67e-04
231967_at	4B	6.76e-04
203556_at	4B	6.77e-04
202605_at	4B	6.77e-04
201553_s_at	4B	6.77e-04
223370_at	4B	6.8e-04
202644_s_at	4B	6.8e-04
211990_at	4B	6.98e-04
201064_s_at	4B	7.01e-04
210254_at	4B	7.15e-04
200863_s_at	4B	7.15e-04
238606_at	4B	7.21e-04
204340_at	4B	7.21e-04
202005_at	4B	7.21e-04
223431_at	4B	7.23e-04
223834_at	4B	7.32e-04
201888_s_at	4B	7.33e-04
201580__s_at	4B	7.34e-04
230528_s_at	4B	7.69e-04
205173_x_at	4B	7.71e-04
244439_at	4B	7.79e-04
201192_s_at	4B	7.8e-04
204698_at	4B	7.96e-04
223887_at	4B	8.06e-04
1555073_at	4B	8.17e-04
230023_at	4B	8.18e-04
209850_s_at	4B	8.18e-04
209006_s_at	4B	8.18e-04
56256_at	4B	8.33e-04
225782_at	4B	8.42e-04
1552510_at	4B	8.43e-04
207445_s_at	4B	8.69e-04
65493_at	4B	8.7e-04
226537_at	4B	8.76e-04
218879_s_at	4B	9.13e-04
212203_x_at	4B	9.23e-04
214590_s_at	4B	9.26e-04
214541_s_at	4B	9.26e-04
207966_s_at	4B	9.26e-04
33132_at	4B	9.59e-04
238858_at	4B	9.61e-04
205671_s_at	4B	9.64e-04
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202889_x_at	4B	9.84e-04
219093_at	4B	9.89e-04
211139_s_at	4B	9.98e-04
200664_s_at	4B	1.0104e-03
203017_s_at	4B	1.013488e-03
213373_s_at	4B	1.025845e-03
214696_at	4B	1.04099e-03
203885_at	4B	1.042091e-03
203840_at	4B	1.04429e-03
226082_s_at	4B	1.046337e-03
212839_s_at	4B	1.046337e-03
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1568609_s_at	4B	1.077832e-03
203030_s_at	4B	1.078688e-03
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212698_s_at	4B	1.128467e-03
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235121_at	4B	1.170878e-03
233268_s_at	4B	1.17211e-03
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224797_at	4B	1.177637e-03
208496_x_at	4B	1.181219e-03
209696_at	4B	1.181414e-03
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224416_s_at	4B	1.232364e-03
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222162_s_at	4B	1.251555e-03
204806_x_at	4B	1.253748e-03
222747_s_at	4B	1.254567e-03
222436_s_at	4B	1.256479e-03
209765_at	4B	1.265035e-03
228217_s_at	4B	1.269167e-03
243927_x_at	4B	1.272059e-03
208541_x_at	4B	1.273347e-03
219066_at	4B	1.31792e-03
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208707_at	4B	1.343036e-03
200796_s_at	4B	1.347213e-03
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202003_s_at	4B	1.38874e-03

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35626_at	4B	1.411227e-03
231406_at	4B	1.413214e-03
218379_at	4B	1.413214e-03
204438_at	4B	1.413214e-03
201737_s_at	4B	1.42227e-03
220047_at	4B	1.42917e-03
209364_at	4B	1.433379e-03
1553096i_s_at	4B	1.439488e-03
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204924_at	4B	1.454823e-03
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209118_s_at	4B	1.549404e-03
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201639_s_at	4B	1.559895e-03
211128_at	4B	1.561357e-03
222636_at	4B	1.567428e-03
202374_s_at	4B	1.57783e-03
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204904_at	4B	1.630975e-03
217734_s_at	4B	1.655222e-03
220235_s_at	4B	1.667164e-03
219325_s_at	4B	1.684031e-03
219540_at	4B	1.684812e-03
222670_s_at	4B	1.685072e-03
207546_at	4B	1.685072e-03
231991_at	4B	1.695018e-03
212047_s_at	4B	1.709401e-03
1563088_a_at	4B	1.712432e-03
202654_x_at	4B	1.718588e-03
1555724_s_at	4B	1.734414e-03
207229_at	4B	1.753158e-03
223649_s_at	4B	1.756322e-03
222744_s_at	4B	1.762553e-03
217896_s_at	4B	1.790882e-03
204882_at	4B	1.826549e-03
227721_at	4B	1.835719e-03
211826_s_at	4B	1.836445e-03
205121_at	4B	1.837561e-03
200696_s_at	4B	1.844591e-03
227143_s_at	4B	1.851832e-03
227994_x_at	4B	1.854633e-03
203335_at	4B	1.858275e-03
220832_at	4B	1.869224e-03
202394_s_at	4B	1.888856e-03
224906_at	4B	1.889125e-03
203405_at	4B	1.891165e-03
1568678_s_at	4B	1.891451e-03
223650_s_at	4B	1.900744e-03
227151_at	4B	1.917046e-03
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200744_s_at	4B	1.949585e-03
208441_at	4B	1.953929e-03
204109_s_at	4B	1.962625e-03
209187_at	4B	1.965495e-03
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223583_at	4B	2.00259e-03
234362_s_at	4B	2.00259e-03
232563_at	4B	2.00259e-03
220447_at	4B	2.002889e-03
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211750_x_at	4B	2.002889e-03
201746_at	4B	2.002889e-03
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223960_s_at	4B	2.039935e-03
214540_at	4B	2.046173e-03
217475_s_at	4B	2.087916e-03
201156_s_at	4B	2.095809e-03
243444_at	4B	2.119534e-03
225994_at	4B	2.119847e-03
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207269_at	4B	6.937174e-03	206927_s_at	4B	7.666082e-03
204230_s_at	4B	6.955902e-03	234334_s_at	4B	7.669225e-03
212746_s_at	4B	6.970039e-03	202203_s_at	4B	7.679525e-03
1554997_a_at	4B	6.979934e-03	203352_at	4B	7.684018e-03
211248_s_at	4B	6.98795e-03	221858_at	4B	7.709552e-03
240579_at	4B	7.000846e-03	222934_s_at	4B	7.718787e-03
225378_at	4B	7.032863e-03	219877_at	4B	7.729606e-03
209149_s_at	4B	7.043865e-03	201627_s_at	4B	7.73425e-03
212796_s_at	4B	7.05875e-03	209640_at	4B	7.754992e-03
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222555_s_at	4B	7.122956e-03	AFFX-HUMISGF3A/		
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218828_at	4B	7.125883e-03	234850_at	4B	7.826733e-03
206405_x_at	4B	7.139043e-03	224920_x_at	4B	7.866089e-03
201618_x_at	4B	7.151689e-03	218207_s_at	4B	7.882502e-03
220409_at	4B	7.159327e-03	205587_at	4B	7.883202e-03
224415_s_at	4B	7.162575e-03	41469_at	4B	7.885e-03
216311_at	4B	7.162575e-03	214581_x_at	4B	7.894038e-03
225872_at	4B	7.163388e-03	220315_at	4B	7.899809e-03
225165_at	4B	7.163388e-03	201255_x_at	4B	7.899809e-03
33322_i_at	4B	7.163388e-03	201224_s_at	4B	7.900683e-03
243592_at	4B	7.163388e-03	1552508_at	4B	7.902968e-03
222505_at	4B	7.163388e-03	227047_x_at	4B	7.905205e-03
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204162_at	4B	7.170628e-03	1568592_at	4B	7.933135e-03
219492_at	4B	7.17302e-03	219865_at	4B	7.934926e-03
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209015_s_at	4B	7.208398e-03	AFFX-HUMISGF3A/		
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229170_s_at	4B	7.289915e-03	205920_at	4B	8.057053e-03
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203016_s_at	4B	7.387643e-03	210981_s_at	4B	8.116855e-03
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213646 _x_at	4B	8.495373e-03	1552485_at	4B	9.370283e-03
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204854_at	4B	0.02	232024_at	4B	0.02
228017_s_at	4B	0.02	218514_at	4B	0.02
221152_at	4B	0.02	1554578_at	4B	0.02
221615_at	4B	0.02	201131_s_at	4B	0.02
219193_at	4B	0.02	239792_at	4B	0.02
211491_at	4B	0.02	213182_x_at	4B	0.02
210294_at	4B	0.02	210195_s_at	4B	0.02
208506_at	4B	0.02	205906_at	4B	0.02
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214935_at	4B	0.02	202890_at	4B	0.02
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218208_at	4B	0.02	205119_s_at	4B	0.02
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201232_s_at	4B	0.02	231737_at	4B	0.02
206025_s_at	4B	0.02	203666_at	4B	0.02
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236270_at	4B	0.02	235177_at	4B	0.03
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221775_x_at	4D	1.450905e-03	220570_at	4D	1.956251e-03
209015_s_at	4D	1.460372e-03	220874_at	4D	1.956726e-03
207727_s_at	4D	1.466318e-03	219846_at	4D	1.959634e-03
238940_at	4D	1.47235e-03	203390_s_at	4D	1.973684e-03
222747_s_at	4D	1.472645e-03	219033_at	4D	1.979468e-03
202889_x_at	4D	1.476199e-03	228499_at	4D	1.983739e-03
208089_s_at	4D	1.489566e-03	238081_at	4D	1.986533e-03
218773_s_at	4D	1.511154e-03	1567107_s_at	4D	1.989647e-03
208083_s_at	4D	1.520675e-03	211097_s_at	4D	1.996286e-03
223044_at	4D	1.521514e-03	212974_at	4D	2.015791e-03
221724_s_at	4D	1.521539e-03	220617_s_at	4D	2.039223e-03
213340_s_at	4D	1.530155e-03	200043_at	4D	2.047802e-03
201413_at	4D	1.542964e-03	223620_at	4D	2.051294e-03
203737_s_at	4D	1.543482e-03	63009_at	4D	2.051294e-03
235359_at	4D	1.544076e-03	222714_s_at	4D	2.051294e-03
205403_at	4D	1.5518e-03	201416_at	4D	2.051294e-03
238429_at	4D	1.553128e-03	219998_at	4D	2.069871e-03
236767_at	4D	1.558096e-03	1562329_at	4D	2.071949e-03
211128_at	4D	1.561316e-03	213670_x_at	4D	2.072658e-03
215021_s_at	4D	1.572794e-03	213836_s_at	4D	2.083087e-03
218292_s_at	4D	1.582736e-03	1552343_s_at	4D	2.090519e-03
219133_at	4D	1.58453e-03	206942_s_at	4D	2.091166e-03
230421_at	4D	1.601661e-03	201044_x_at	4D	2.092034e-03
39402_at	4D	1.602575e-03	216937_s_at	4D	2.102724e-03
224196_x_at	4D	1.611466e-03	210092_at	4D	2.127146e-03
228923_at	4D	1.639475e-03	226024_at	4D	2.140138e-03
1552510_at	4D	1.651079e-03	225369_at	4D	2.175651e-03
204677_at	4D	1.656803e-03	226614_s_at	4D	2.183556e-03
225031_at	4D	1.666057e-03	214440_at	4D	2.186375e-03
1553768_a_at	4D	1.669094e-03	222625_s_at	4D	2.192633e-03
1556588_at	4D	1.674368e-03	223086_x_at	4D	2.215985e-03
205562_at	4D	1.689689e-03	225196_s_at	4D	2.228463e-03
220038_at	4D	1.712773e-03	240967_at	4D	2.229635e-03
204000_at	4D	1.712773e-03	1569207_s_at	4D	2.237328e-03
213373_s_at	4D	1.714491e-03	218213_s_at	4D	2.242764e-03
206707_x_at	4D	1.723219e-03	204868_at	4D	2.250631e-03
220391_at	4D	1.726928e-03	226489_at	4D	2.268656e-03
214541_s_at	4D	1.732433e-03	202866_at	4D	2.28204e-03
235923_at	4D	1.74433e-03	219540_at	4D	2.282919e-03
212106_at	4D	1.745382e-03	219962_at	4D	2.299751e-03
225282_at	4D	1.747021e-03	201134_x_at	4D	2.320079e-03
226837_at	4D	1.751751e-03	207687_at	4D	2.326331e-03
222408_s_at	4D	1.761083e-03	204793_at	4D	2.327743e-03

221229_s_at	4D	2.33032e-03
218233_s_at	4D	2.332066e-03
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218356_at	4D	2.333669e-03
230084_at	4D	2.35571e-03
226159_at	4D	2.369945e-03
216248_s_at	4D	2.395505e-03
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224330_s_at	4D	2.4269e-03
219228_at	4D	2.441268e-03
221478_at	4D	2.442178e-03
211163_s_at	4D	2.446454e-03
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210279_at	4D	2.51924e-03
233250_x_at	4D	2.521912e-03
207205_at	4D	2.559011e-03
219066_at	4D	2.564104e-03
204140_at	4D	2.567697e-03
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218722_s_at	4D	2.57493e-03
223639_s_at	4D	2.575444e-03
221689_s_at	4D	2.576024e-03
241436_at	4D	2.579816e-03
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216915_s_at	4D	2.622986e-03
226639_at	4D	2.624635e-03
208786_s_at	4D	2.628708e-03
206392_s_at	4D	2.652378e-03
230763_at	4D	2.686628e-03
207421_at	4D	2.694219e-03
1566289_at	4D	2.704004e-03
222858_s_at	4D	2.713859e-03
234864_s_at	4D	2.72241e-03
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218117_at	4D	2.73837e-03
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225853_at	4D	2.83982e-03
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218379_at	4D	2.861093e-03
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212684_at	4D	2.996496e-03
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215719_x_at	4D	3.030294e-03
223988_x_at	4D	3.033846e-03
207279_s_at	4D	3.033918e-03
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218880_at	4D	3.043891e-03
201109_s_at	4D	3.05584e-03
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218512_at	4D	3.078383e-03
205329_s_at	4D	3.080877e-03
224820_at	4D	3.087339e-03
1559302_at	4D	3.091246e-03
218190_s_at	4D	3.09956e-03
40687_at	4D	3.101301e-03
212747_at	4D	3.11899e-03
225133_at	4D	3.14609e-03
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1555015_a_at	4D	3.176725e-03
220329_s_at	4D	3.182481e-03
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228597_at	4D	3.213387e-03
213378_s_at	4D	3.214718e-03
211566_x_at	4D	3.219176e-03
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1557056_at	4D	3.225641e-03
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220000_at	4D	3.271844e-03
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203650_at	4D	3.283533e-03
205541_s_at	4D	3.306053e-03
223963_s_at	4D	3.31202e-03
202101_s_at	4D	3.33568e-03
211542_x_at	4D	3.345227e-03
214590_s_at	4D	3.35138e-03
224657_at	4D	3.357876e-03
218581_at	4D	3.366951e-03
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202061_s_at	4D	3.380376e-03
234504_at	4D	3.434255e-03
201839_s_at	4D	3.436474e-03
219093_at	4D	3.438068e-03
218555_at	4D	3.438068e-03
208960_s_at	4D	3.438068e-03
201158_at	4D	3.438068e-03
214784_x_at	4D	3.442941e-03
203966_s_at	4D	3.454002e-03
218059_at	4D	3.460103e-03
221647_s_at	4D	3.469821e-03
209187_at	4D	3.48034e-03
220376_at	4D	3.502842e-03

227916_x_at	4D	3.517133e-03		220261_s_at	4D	4.132706e-03
234942_s_at	4D	3.532557e-03		219378_at	4D	4.155643e-03
223276_at	4D	3.53665e-03		1553272_at	4D	4.158695e-03
210740_s_at	4D	3.58453e-03		202567_at	4D	4.165784e-03
213687_s_at	4D	3.584923e-03		220012_at	4D	4.169867e-03
211725_s_at	4D	3.588406e-03		215260_s_at	4D	4.177035e-03
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220447_at	4D	3.643206e-03		1570253_a_at	4D	4.215174e-03
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212831_at	4D	3.64717e-03		224634_at	4D	4.230439e-03
209185_s_at	4D	3.653078e-03		208785_s_at	4D	4.240003e-03
209118_s_at	4D	3.665734e-03		224495_at	4D	4.245709e-03
202591_s_at	4D	3.669648e-03		213122_at	4D	4.247842e-03
209497_s_at	4D	3.688525e-03		240359_at	4D	4.253072e-03
211657_at	4D	3.693224e-03		233461_x_at	4D	4.255916e-03
223244_s_at	4D	3.69596e-03		221924_at	4D	4.2598e-03
203973_s_at	4D	3.696764e-03		204493_at	4D	4.263679e-03
1568590_at	4D	3.699264e-03		200919_at	4D	4.263749e-03
217896_s_at	4D	3.70718e-03		206875_s_at	4D	4.266951e-03
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201770_at	4D	3.729199e-03		219590_x_at	4D	4.272831e-03
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201746_at	4D	3.759958e-03		244546_at	4D	4.283135e-03
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222949_at	4D	3.78231e-03		226875_at	4D	4.291222e-03
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201226_at	4D	3.798989e-03		202641_at	4D	4.307733e-03
209512_at	4D	3.813284e-03		209331_s_at	4D	4.309431e-03
224932_at	4D	3.835156e-03		223789_s_at	4D	4.322517e-03
221541_at	4D	3.844656e-03		227844_at	4D	4.331111e-03
219336_s_at	4D	3.853557e-03		202806_at	4D	4.336179e-03
223223_at	4D	3.870086e-03		214108_at	4D	4.33619e-03
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205214_at	4D	3.907914e-03		201535_at	4D	4.345488e-03
228859_at	4D	3.90793e-03		215230_x_at	4D	4.346962e-03
220114_s_at	4D	3.916327e-03		219492_at	4D	4.361002e-03
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1555021_a_at	4D	3.939498e-03		207979_s_at	4D	4.385834e-03
1568678_s_at	4D	3.941424e-03		201700_at	4D	4.411491e-03
227475_at	4D	3.942521e-03		1552263_at	4D	4.421661e-03
205248_at	4D	3.947655e-03		205173_x_at	4D	4.42403e-03
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224563_at	4D	3.966137e-03		219234_x_at	4D	4.444865e-03
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206030_at	4D	4.018799e-03		210775_x_at	4D	4.498414e-03
207966_s_at	4D	4.020301e-03		213835_x_at	4D	4.498653e-03
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220242_x_at	4D	4.052138e-03		234617_at	4D	4.533382e-03
201235_s_at	4D	4.052138e-03		225173_at	4D	4.558151e-03
1552575_a_at	4D	4.052573e-03		206877_at	4D	4.559052e-03
200817_x_at	4D	4.070383e-03		211990_at	4D	4.561687e-03
217492_s_at	4D	4.077794e-03		212355_at	4D	4.563473e-03
202726_at	4D	4.086201e-03		209301_at	4D	4.580634e-03
220890_s_at	4D	4.098663e-03		226739_at	4D	4.581755e-03
214136_at	4D	4.112344e-03		221057_at	4D	4.616387e-03
1569408_at	4D	4.12035e-03		219242_at	4D	4.624515e-03
209850_s_at	4D	4.128373e-03		243290_at	4D	4.639016e-03

1553185_at	4D	4.64811 6e-03	210250_x_at	4D	5.118266e-03
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202475_at	4D	4.683878e-03	202857_at	4D	5.161095e-03
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214091_s_at	4D	4.70051e-03	212922_s_at	4D	5.210141e-03
238547_at	4D	4.71227e-03	227402_s_at	4D	5.210702e-03
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210380_s_at	4D	4.73049e-03	1553861_at	4D	5.222568e-03
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226092_at	4D	4.758155e-03	240027_at	4D	5.263555e-03
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204366_s_at	4D	4.758155e-03	200647_x_at	4D	5.318644e-03
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219054_at	4D	4.761151e-03	214965_at	4D	5.328578e-03
204780_s_at	4D	4.796026e-03	222130_s_at	4D	5.339681e-03
214397_at	4D	4.798028e-03	219056_at	4D	5.34336e-03
203832_at	4D	4.827371e-03	200648_s_at	4D	5.354544e-03
220960_x_at	4D	4.832708e-03	1553328_a_at	4D	5.359563e-03
221700_s_at	4D	4.846042e-03	219653_at	4D	5.365724e-03
222156_x_at	4D	4.847506e-03	225782_at	4D	5.373938e-03
218978_s_at	4D	4.861176e-03	208092_s_at	4D	5.384326e-03
201888_s_at	4D	4.861875e-03	209527_at	4D	5.385602e-03
219999_at	4D	4.862771e-03	1569490_at	4D	5.399113e-03
203060_s_at	4D	4.871872e-03	212087_s_at	4D	5.405081e-03
204087_s_at	4D	4.876396e-03	226956_at	4D	5.409694e-03
1553893_at	4D	4.900971e-03	219312_s_at	4D	5.419276e-03
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223809_at	4D	4.914172e-03	225043_at	4D	5.477734e-03
212059_s_at	4D	4.916975e-03	209100_at	4D	5.482273e-03
225505_s_at	4D	4.928337e-03	218319_at	4D	5.486629e-03
220418_at	4D	4.930605e-03	216034_at	4D	5.489956e-03
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202149_at	4D	4.935738e-03	209317_at	4D	5.499802e-03
233268_s_at	4D	4.944633e-03	224347_x_at	4D	5.506369e-03
1554455_at	4D	4.947134e-03	237040_at	4D	5.519746e-03
213062_at	4D	4.94784e-03	230829_at	4D	5.537036e-03
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221803_s_at	4D	5.072423e-03	213168_at	4D	5.663681e-03
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751

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235177 [at	4D	0.01		222792_s_at	4D	0 Gl
235241 _at	4D	0.01		207397 s_at	4D	O.Üi
218538 _s_at	4D	0.01		219x£2[_s_at	4D	C·Q1
213059 _clt	4D	0.01		235509_at	4D	0.01
217499 x ar.	4D	0.01		203133_at	4D	0.01
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230701 _x_at	4D	0.04
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203358 _s_at	4D	0.04
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204736 _s_at	4D	0.04
200799 _at	4D	0.04
243935 _at	4D	0.04
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218770 _s_at	4D	0.04
205779 _at	4D	0.04
223008 _s_at	4D	0.04
206776 _x_at	4D	0.04
207072 _at	4D	0.04
206656 _s_at	4D	0.04
218760 _at	4D	0.04
221729 _at	4D	0.04
218561 _s_at	4D	0.04
1553947 _at	4D	0.04
225743 _at	4D	0.04
222636 _at	4D	0.04
206920 _s_at	4D	0.04
220355 _s_at	4D	0.04
216255 _s_at	4D	0.04
202817 _s_at	4D	0.04
214773 _x_at	4D	0.04
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236621 _at	4D	0.04
203173 _s_at	4D	0.04
216922 _x_at	4D	0.04
214106 _s_at	4D	0.04
206832 _s_at	4D	0.04
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226422 _at	4D	0.04
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218851 _s_at	4D	0.04
221308 _at	4D	0.04
207158 _at	4D	0.04
202203 _s_at	4D	0.04
201853 _s_at	4D	0.04
1568629 _s_at	4D	0.04
202110 _at	4D	0.04
203748 _x_at	4D	0.04
1569349 _at	4D	0.04

Probe	Group	Value
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201363_s_at	4D	0.04
235447_at	4D	0.04
201910_at	4D	0.04
214772_at	4D	0.04
223478_at	4D	0.04
221032_s_at	4D	0.04
217565_at	4D	0.04
217883_at	4D	0.04
224516_s_at	4D	0.04
206769_at	4D	0.04
227068_at	4D	0.04
209144_s_at	4D	0.04
212964_at	4D	0.04
223542_at	4D	0.04
217971_at	4D	0.04
202267_at	4D	0.04
204215_at	4D	0.04
209686_at	4D	0.04
213853_at	4D	0.04
1552628_a_at	4D	0.04
223674_s_at	4D	0.04
219849_at	4D	0.04
215321_at	4D	0.04
224159_x_at	4D	0.04
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223345_at	4D	0.04
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220491_at	4D	0.04
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1552798_a_at	4D	0.04
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238066_at	4D	0.04
204771_s_at	4D	0.04
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217167_x_at	4D	0.04
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214696_at	4F	1.15e-05
205960_at	4F	2.22e-05

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244317_at	4F	5.38e-05
224550_s_at	4F	6.06e-05
218794_s_at	4F	7.44e-05
206841_at	4F	8.16e-05
206205_at	4F	9.92e-05
224969_at	4F	1.02e-04
204376_at	4F	1.05e-04
203440_at	4F	1.1e-04
212079_s_at	4F	1.33e-04
214706_at	4F	1.39e-04
214060_at	4F	1.42e-04
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211530_x_at	4F	1.65e-04
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1552879_a_at	4F	1.91e-04
223917_s_at	4F	1.96e-04
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222631_at	4F	2.21e-04
203580_s_at	4F	2.25e-04
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222480_at	4F	2.81e-04
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222311_s_at	4F	2.98e-04
218601_at	4F	3.02e-04
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203277_at	4F	3.67e-04
206739_at	4F	3.73e-04
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206177_s_at	4F	4.09e-04
208779_x_at	4F	4.13e-04
217094_s_at	4F	4.18e-04
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211372_s_at	4F	6.34e-04
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240913_at	4F	6.58e-04
211548_s_at	4F	6.63e-04
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239430_at	4F	7.78e-04
201925_s_at	4F	7.82e-04
219799_s_at	4F	7.95e-04
225002_s_at	4F	7.96e-04
210907_s_at	4F	7.96e-04
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221561_at	4F	8.27e-04
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211413_s_at	4F	8.62e-04
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224797_at	4F	8.77e-04
217734_s_at	4F	8.91e-04
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218957_s_at	4F	9.04e-04
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202781_s_at	4F	9.88e-04
207006_s_at	4F	9.88e-04
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233986_s_at	4F	1.012704e-03
236040_at	4F	1.040131e-03
201359_at	4F	1.04233e-03
226764_at	4F	1.042415e-03
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215952_s_at	4F	1.053544e-03
201491_at	4F	1.057697e-03
218865_at	4F	1.059491e-03
206893_at	4F	1.069659e-03
223709_s_at	4F	1.091347e-03

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211731 _x_at	4F	1.094111e-03		218292 _s_at	4F	1.582736e-03
217774 _s_at	4F	1.099898e-03		226967 _at	4F	1.58496e-03
220486 _x_at	4F	1.116164e-03		39402 _at	4F	1.602575e-03
201684 _s_at	4F	1.116519e-03		224196 _x_at	4F	1.611466e-03
200863 _s_at	4F	1.121565e-03		222989 _s_at	4F	1.611522e-03
234733 _s_at	4F	1.131629e-03		228923_ at	4F	1.639475e-03
218132 _s_at	4F	1.150723e-03		223907 _s_at	4F	1.640775e-03
209840 _s_at	4F	1.154255e-03		1552510 _at	4F	1.651079e-03
226338 _at	4F	1.156986e-03		204677 _at	4F	1.656803e-03
1563458 _at	4F	1.172109e-03		225031 _at	4F	1.666057e-03
203760 _s_at	4F	1.178358e-03		1555724 _s_at	4F	1.666868e-03
214590 _s_at	4F	1.178567e-03		1553768 _a_at	4F	1.669094e-03
223431 _at	4F	1.178567e-03		1556588 _at	4F	1.674368e-03
202905 _x_at	4F	1.178567e-03		205562 _at	4F	1.689689e-03
219741 _x_at	4F	1.182658e-03		222858 _s_at	4F	1.712773e-03
219870 _at	4F	1.194518e-03		213373 _s_at	4F	1.714491e-03
203499 _at	4F	1.198594e-03		206707 _x_at	4F	1.723219e-03
204481 _at	4F	1.221632e-03		214541_ s_at	4F	1.732433e-03
220755 _s_at	4F	1.223399e-03		208907 _s_at	4F	1.745382e-03
212636 _at	4F	1.225528e-03		225282 _at	4F	1.747021e-03
230214 _at	4F	1.232157e-03		222408 _s_at	4F	1.761083e-03
203701 _s_at	4F	1.25791e-03		202855 _s_at	4F	1.776696e-03
201771 _at	4F	1.278876e-03		205729 _at	4F	1.787192e-03
1553400 _a_at	4F	1.298154e-03		230050 _at	4F	1.796919e-03
203374 _s_at	4F	1.300207e-03		214285 _at	4F	1.797789e-03
243927 _x_at	4F	1.302871e-03		214440 _at	4F	1.826043e-03
220986 _s_at	4F	1.304539e-03		216351 _x_at	4F	1.838716e-03
203527 _s_at	4F	1.320074e-03		203795 _s_at	4F	1.849474e-03
225612 _s_at	4F	1.320088e-03		1554108 _at	4F	1.854142e-03
223392 _s_at	4F	1.325957e-03		226026 _at	4F	1.85755e-03
3559050 _at	4F	1.327458e-03		206045 _s_at	4F	1.858677e-03
231967 _at	4F	1.347009e-03		224787 _s_at	4F	1.862211e-03
1568592 _at	4F	1.35578e-03		222997 _s_at	4F	1.865844e-03
244190 _at	4F	1.36951e-03		219581 _at	4F	1.876119e-03
205149 _s_at	4F	1.38004e-03		207705 _s_at	4F	1.876619e-03
1552554 _a_at	4F	1.392453e-03		223393 _s_at	4F	1.89833e-03
1555702 _a_at	4F	1.395307e-03		1555736 _a_at	4F	1.916028e-03
207473 _at	4F	1.401622e-03		223470 _at	4F	1.927291e-03
229372 _at	4F	1.403431e-03		205034 _at	4F	1.931221e-03
205756 _s_at	4F	1.409196e-03		202209 _at	4F	1.934882e-03
218291 _at	4F	1.423952e-03		204194 _at	4F	1.938974e-03
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222867 _s_at	4F	1.438145e-03		220874 _at	4F	1.956726e-03
221775 _x_at	4F	1.450905e-03		221191 _at	4F	1.957711e-03
209015 _s_at	4F	1.460372e-03		203390 _s_at	4F	1.973684e-03
238940 _at	4F	1.47235e-03		219033 _at	4F	1.979468e-03
222747 _s_at	4F	1.472645e-03		228499 _at	4F	1.983739e-03
202889 _x_at	4F	1.476199e-03		238081 _at	4F	1.986533e-03
1568678 _s_at	4F	1.48287e-03		1567107 _s_at	4F	1.989647e-03
218773 _s_at	4F	1.511154e-03		211097 _s_at	4F	1.996286e-03
208083 _s_at	4F	1.520675e-03		212974 _at	4F	2.015791e-03
223044 _at	4F	1.521514e-03		218699 _at	4F	2.039373e-03
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211758 _x_at	4F	1.525672e-03		202839 _s_at	4F	2.051294e-03
211305 _x_at	4F	1.530001e-03		206785 _s_at	4F	2.051294e-03
213340 _s_at	4F	1.530155e-03		205483 _s_at	4F	2.051294e-03
203178 _at	4F	1.542886e-03		201500 _s_at	4F	2.051294e-03
203737 _s_at	4F	1.543482e-03		219998 _at	4F	2.069871e-03
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238429 _at	4F	1.553128e-03		213670 _x_at	4F	2.072658e-03
236767 _at	4F	1.558096e-03		213836 _s_at	4F	2.083087e-03
211128 _at	4F	1.561316e-03		1552343 _s_at	4F	2.090519e-03
202644 _s_at	4F	1.571e-03		206942 _s_at	4F	2.091166e-03

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216937_s_at	4F	2.102724e-03
226378_s_at	4F	2.108077e-03
219209_at	4F	2.1234e-03
210092_at	4F	2.127146e-03
226024_at	4F	2.140138e-03
208915_s_at	4F	2.15496e-03
225369_at	4F	2.175651e-03
226614_s_at	4F	2.183556e-03
222625_s_at	4F	2.192633e-03
223086_x_at	4F	2.215985e-03
205953_at	4F	2.229241e-03
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226489_at	4F	2.268656e-03
205096_at	4F	2.270843e-03
202866_at	4F	2.28204e-03
219540_at	4F	2.282919e-03
219962_at	4F	2.299751e-03
202342_s_at	4F	2.3038e-03
201134_x_at	4F	2.320079e-03
207536_s_at	4F	2.323764e-03
207687_at	4F	2.326331e-03
204793_at	4F	2.327743e-03
218233_s_at	4F	2.332066e-03
203910_at	4F	2.332625e-03
230084_at	4F	2.35571e-03
222162_s_at	4F	2.36291e-03
226159_at	4F	2.369945e-03
227609_at	4F	2.379615e-03
204995__at	4F	2.38555e-03
216248^s_at	4F	2.395505e-03
224330_s_at	4F	2.4269e-03
221506_s_at	4F	2.437199e-03
219228_at	4F	2.441268e-03
221478_at	4F	2.442178e-03
203378_at	4F	2.442801e-03
214012_at	4F	2.446454e-03
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˸ ᵌ₂₋₂ŌŌor˙˙ᵃt˙ ᵣ˙˙-4T ᵛʳÜr ″ ˤ˳″			224736_at	4F	0.01
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217887_s_at	4F	0.01
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201594_s_at	4F	0.01
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243042_at		4F	0.02	221680_s_at	4F	0.02

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205857	_at	4F	0.02	225508_at	4F	0.02
239196	_at	4F	0.02	225661_at	4F	0.02
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221517	_s_at	4F	0.02	231877_at	4F	0.02
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223599	_at	4F	0.02	206659_at	4F	0.02
217773	_s_at	4F	0.02	220647_s_at	4F	0.02
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223060	_at	4F	0.02	220059_at	4F	0.02
226443	_at	4F	0.02	200800_s_at	4F	0.02
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218979	_at	4F	0.02	206688_s_at	4F	0.02
233496	_s_at	4F	0.02	221692_s_at	4F	0.02

21854"3j_'sJa'tr¹'"₄·ᴲ· o··.'b2···			217962_at	4 F	0.02	
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243592_at	4 F	0.02	206637_at	4 F	0.02	
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204423_at	4 F	0.02	206511_s_at	4 F	0.02	
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788

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200728	_at	4F	0.02	201582	_at	4F	0.02
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214543	_x_at	4F	0.02	206652	_at	4F	0.02
217871	_s_at	4F	0.02	220027	_s_at	4F	0.02
206848	_at	4F	0.02	1553502	_a_at	4F	0.02
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219913	_s_at	4F	0.02	227266	_s_at	4F	0.02
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214773	_x_at	4F	0.02	203817	_at	4F	0.02
217756	_x_at	4F	0.02	200609	_s_at	4F	0.02
210048	_at	4F	0.02	206097	_at	4F	0.02
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200713	_s_at	4F	0.02	233061	_at	4F	0.02
200701	_at	4F	0.02	218270	_at	4F	0.02
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208285	_at	4F	0.02	210550	_s_at	4F	0.02
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1564285	_at	4F	0.02	203436	_at	4F	0.02
212862	_at	4F	0.02	219156	_at	4F	0.02
221377	_s_at	4F	0.02	203497	_at	4F	0.02
1569302	_at	4F	0.02	209450	_at	4F	0.02
1555495	_a_at	4F	0.02	201999	_s_at	4F	0.02
223749	_at	4F	0.02	206877	_at	4F	0.02
225154	_at	4F	0.02	228017	_s_at	4F	0.02
205371	_s_at	4F	0.02	213716	_s_at	4F	0.02
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224689	_at	4F	0.02	205347	_s_at	4F	0.02
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225755	_at	4F	0.02	205005	_s_at	4F	0.02
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242349	_at	4F	0.02	217845	_x_at	4F	0.02
203880	_at	4F	0.02	223396	_at	4F	0.02
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223846	_at	4F	0.02	226824	_at	4F	0.02
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215051_x_at	4F	0.03		200091_s_at	4F	0.03
217831_s_at	4F	0.03		202968_s_at	4F	0.03
213823_at	4F	0.03		206662_at	4F	0.03
57532_at	4F	0.03		203484_at	4F	0.03
208746_x_at	4F	0.03		213892_s_at	4F	0.03
207253_s_at	4F	0.03		223148_at	4F	0.03
1569102_at	4F	0.03		218905_at	4F	0.03
206318_at	4F	0.03		243623_at	4F	0.03
236848_s_at	4F	0.03		209158_s_at	4F	0.03
228845_at	4F	0.03		220460_at	4F	0.03
202449_s_at	4F	0.03		220446_s_at	4F	0.03
221179_at	4F	0.03		1552312_a_at	4F	0.03
217513_at	4F	0.03		202264_s_at	4F	0.03
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221670_s_at	4F	0.04		219033_at	4H	6.21e-05
210459_at	4F	0.04		205715_at	4H	6.21e-05
232162_at	4F	0.04		209015_s_at	4H	6.21e-05
218043_s_at	4F	0.04		206841_at	4H	8.16e-05
205270_s_at	4F	0.04		209426_s_at	4H	9.4e-05
226749_at	4F	0.04		206205_at	4H	9.92e-05
207619_at	4F	0.04		224969_at	4H	1.02e-04
212449_s_at	4F	0.04		200863_s_at	4H	1.04e-04
209165_at	4F	0.04		201490_s_at	4H	1.04e-04
212101_at	4F	0.04		204376_at	4H	1.05e-04
204143_s_at	4F	0.04		203440_at	4H	1.1e-04
210271_at	4F	0.04		1554510_s_at	4H	1.26e-04
211152_s_at	4F	0.04		213373_s_at	4H	1.27e-04
1555371_at	4F	0.04		203470_s_at	4H	1.34e-04
234334_s_at	4F	0.04		214060_at	4H	1.42e-04
214003_x_at	4F	0.04		203914_x_at	4H	1.49e-04
214166_at	4F	0.04		219724_s_at	4H	1.59e-04
221951_at	4F	0.04		206632_s_at	4H	1.59e-04
219121_s_at	4F	0.04		211530_x_at	4H	1.65e-04
200731_s_at	4F	0.04		243927_x_at	4H	1.7e-04

204194_at	4H	1.71e-04		223946_at	4H	5.06e-04
221724_s_at	4H	1.71e-04		223070_at	4H	5.1e-04
1555736_a_at	4H	1.71e-04		205435_s_at	4H	5.15e-04
201887_at	4H	1.72e-04		207768_at	4H	5.26e-04
206429_at	4H	1.76e-04		205067_at	4H	5.27e-04
202813_at	4H	1.86e-04		223431_at	4H	5.29e-04
209826_at	4H	1.89e-04		242727_at	4H	5.36e-04
208924_at	4H	1.9e-04		203472_s_at	4H	5.38e-04
1552879_a_at	4H	1.91e-04		219765_at	4H	5.4e-04
231845_at	4H	1.94e-04		204507_s_at	4H	5.67e-04
223917_s_at	4H	1.96e-04		209021_x_at	4H	5.69e-04
205750_at	4H	2.0e-04		45288_at	4H	5.71e-04
221676_s_at	4H	2.17e-04		217916_s_at	4H	5.84e-04
222631_at	4H	2.21e-04		220610_s_at	4H	6.11e-04
203580_s_at	4H	2.25e-04		208398_s_at	4H	6.24e-04
226767_s_at	4H	2.28e-04		203019_x_at	4H	6.3e-04
218559_s_at	4H	2.38e-04		204894_s_at	4H	6.3e-04
220426_at	4H	2.4e-04		211372_s_at	4H	6.34e-04
204379_s_at	4H	2.43e-04		208895_s_at	4H	6.37e-04
203471_s_at	4H	2.46e-04		218942_at	4H	6.47e-04
203144_s_at	4H	2.49e-04		218773_s_at	4H	6.5e-04
235020_at	4H	2.5e-04		212636_at	4H	6.5e-04
218794_s_at	4H	2.71e-04		217766_s_at	4H	6.5e-04
204774_at	4H	2.73e-04		204053_x_at	4H	6.5e-04
207549_x_at	4H	2.73e-04		202098_s_at	4H	6.5e-04
219859_at	4H	2.75e-04		240913_at	4H	6.58e-04
222480_at	4H	2.81e-04		211548_s_at	4H	6.63e-04
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225188_at	4H	2.93e-04		209999_x_at	4H	6.64e-04
222311_s_at	4H	2.98e-04		1567238_at	4H	6.71e-04
218601_at	4H	3.02e-04		221206_at	4H	6.87e-04
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206039_at	4H	3.16e-04		208763_s_at	4H	7.3e-04
1570373_at	4H	3.22e-04		202644_s_at	4H	7.4e-04
218199_s_at	4H	3.38e-04		214539_at	4H	7.58e-04
224377_s_at	4H	3.42e-04		207001_x_at	4H	7.61e-04
54037_at	4H	3.42e-04		220785_at	4H	7.63e-04
214590_s_at	4H	3.42e-04		203921_at	4H	7.68e-04
218454_at	4H	3.42e-04		214440_at	4H	7.71e-04
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201700_at	4H	3.42e-04		201925_s_at	4H	7.82e-04
204839_at	4H	3.44e-04		200913_at	4H	7.91e-04
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203389_at	4H	3.59e-04		209744_x_at	4H	7.96e-04
203277_at	4H	3.67e-04		211725_s_at	4H	7.96e-04
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205558_at	4H	3.78e-04		207791_s_at	4H	7.96e-04
215606_s_at	4H	3.89e-04		208960_s_at	4H	7.96e-04
209841_s_at	4H	4.03e-04		65493_at	4H	8.01e-04
214706_at	4H	4.04e-04		203400_s_at	4H	8.15e-04
206177_s_at	4H	4.09e-04		221561_at	4H	8.27e-04
217094_s_at	4H	4.18e-04		209187_at	4H	8.3e-04
1558014_s_at	4H	4.26e-04		58367_s_at	4H	8.49e-04
207665_at	4H	4.43e-04		214011_s_at	4H	8.6e-04
203712_at	4H	4.44e-04		202767_at	4H	8.61e-04
220784_s_at	4H	4.5e-04		211413_s_at	4H	8.62e-04
229665_at	4H	4.67e-04		203913_s_at	4H	8.7e-04
226837_at	4H	4.81e-04		224797_at	4H	8.77e-04
205193_at	4H	4.86e-04		217734_s_at	4H	8.91e-04
213846_at	4H	4.96e-04		218883_s_at	4H	8.92e-04
224661_at	4H	5.01e-04		210724_at	4H	8.98e-04
222656_at	4H	5.02e-04		226820_at	4H	9.03e-04

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200998 _s_at		4H	9.45e-04
223412 _at		4H	9.59e-04
227029 _at		4H	9.71e-04
215719 _x_at		4H	9.71e-04
223392 _s_at		4H	9.71e-04
223017 _at		4H	9.71e-04
205214 _at		4H	9.71e-04
213190 _at		4H	9.85e-04
202781 _s_at		4H	9.88e-04
207006 _s_at		4H	9.88e-04
219999 _at		4H	9.97e-04
233986 _s_at		4H	1.012704e-03
236040 _at		4H	1.040131e-03
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210740 _s_at		4H	1.043815e-03
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202032 _s_at		4H	1.097017e-03
217774 _s_at		4H	1.099898e-03
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234733 _s_at		4H	1.131629e-03
222955 _s_at		4H	1.132059e-03
218132 _s_at		4H	1.150723e-03
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205227 _at		4H	1.423952e-03
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201009 _s_at		4H	1.423952e-03
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228923 _at		4H	1.639475e-03
223907 _s_at		4H	1.640775e-03
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204677 _at		4H	1.656803e-03
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1553768 _a_at		4H	1.669094e-O3
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212077 _at		4H	1.705832e-03
224640 _at		4H	1.712773e-03
219066 _at		4H	1.712773e-03
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223276 _at		4H	1.712773e-03
200609 _s_at		4H	1.712773e-03
206707 _x_at		4H	1.723219e-03
214541 _s_at		4H	1.732433e-03
221484 _at		4H	1.743981e-03
217909 _s_at		4H	1.745382e-O3
209853 _s_at		4H	1.745382e-03
225282 _at		4H	1.747021e-03
202342 _s_at		4H	1.748889e-03
233571 _x_at		4H	1.750242e-03

222408_s_at	4H	1.761083e-03	1569207_s_at	4H	2.237328e-03
202855_s_at	4H	1.776696e-03	218213_s_at	4H	2.242764e-03
201242_s_at	4H	1.780061e-03	226489_at	4H	2.268656e-03
203103_s_at	4H	1.785104e-03	205096_at	4H	2.270843e-03
230050_at	4H	1.796919e-03	210395_x_at	4H	2.274329e-03
214285_at	4H	1.797789e-03	202866_at	4H	2.28204e-03
218735_s_at	4H	1.805661e-03	219540_at	4H	2.282919e-03
220397_at	4H	1.819607e-03	219962_at	4H	2.299751e-03
216351_x_at	4H	1.838716e-03	201134_x_at	4H	2.320079e-03
203795_s_at	4H	1.849474e-03	207687_at	4H	2.326331e-03
218291_at	4H	1.851775e-03	204793_at	4H	2.327743e-03
1554108_at	4H	1.854142e-03	221229_s_at	4H	2.33032e-03
226026_at	4H	1.85755e-03	218233_s_at	4H	2.332066e-03
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219581_at	4H	1.876119e-03	218356_at	4H	2.333669e-03
218315_s_at	4H	1.892982e-03	230084_at	4H	2.35571e-03
223393_s_at	4H	1.89833e-03	226159_at	4H	2.369945e-03
223470_at	4H	1.927291e-03	216248_s_at	4H	2.395505e-03
205034_at	4H	1.931221e-03	220755_s_at	4H	2.415064e-03
202209_at	4H	1.934882e-03	224330_s_at	4H	2.4269e-03
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220570_at	4H	1.956251e-03	225659_at	4H	2.446454e-03
220874_at	4H	1.956726e-03	219242_at	4H	2.446454e-03
221191_at	4H	1.957711e-03	213659_at	4H	2.446454e-03
203390_s_at	4H	1.973684e-03	217962_at	4H	2.446454e-03
238609_at	4H	1.980507e-03	215739_s_at	4H	2.446454e-03
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238081_at	4H	1.986533e-03	201156_s_at	4H	2.446454e-03
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203319_s_at	4H	2.051294e-03	207205_at	4H	2.559011e-03
209512_at	4H	2.051294e-03	208047_s_at	4H	2.565749e-03
211139_s_at	4H	2.051294e-03	204140_at	4H	2.567697e-03
202459_s_at	4H	2.051294e-03	218590_at	4H	2.56866e-03
202641_at	4H	2.051294e-03	223639_s_at	4H	2.575444e-03
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1562329_at	4H	2.071949e-03	206392_s_at	4H	2.652378e-03
213670_x_at	4H	2.072658e-03	230763_at	4H	2.686628e-03
213836_s_at	4H	2.083087e-03	207421_at	4H	2.694219e-03
1552343_s_at	4H	2.090519e-03	1566289_at	4H	2.704004e-03
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201044_x_at	4H	2.092034e-03	222858_s_at	4H	2.713859e-03
216937_s_at	4H	2.102724e-03	234864_s_at	4H	2.72241e-03
200734_s_at	4H	2.108077e-03	218117_at	4H	2.73837e-03
205547_s_at	4H	2.111163e-03	200046_at	4H	2.749894e-03
210092_at	4H	2.127146e-03	1556744_a_at	4H	2.752018e-03
226024_at	4H	2.140138e-03	217839_at	4H	2.754126e-03
204377_s_at	4H	2.151169e-03	209331_s_at	4H	2.766308e-03
201471_s_at	4H	2.172865e-03	218037_at	4H	2.77589e-03
225369_at	4H	2.175651e-03	1553186_x_at	4H	2.780087e-03
226614_s_at	4H	2.183556e-03	217811_at	4H	2.798669e-03
222625_s_at	4H	2.192633e-03	204905_s_at	4H	2.815585e-03
223086_x_at	4H	2.215985e-03	223690_at	4H	2.818742e-03
225196_s_at	4H	2.228463e-03	207389_at	4H	2.820042e-03
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229759_s_at	4H	2.852461e-03
218379_at	4H	2.861093e-03
205481_at	4H	2.861901e-03
209889_at	4H	2.884487e-03
1565795_at	4H	2.886395e-03
206336_at	4H	2.891885e-03
217491_x_at	4H	2.893314e-03
218332_at	4H	2.896227e-03
34206_at	4H	2.899737e-03
229264_at	4H	2.902178e-03
74694_s_at	4H	2.905908e-03
218319_at	4H	2.905908e-03
222745_s_at	4H	2.905908e-03
222531_s_at	4H	2.905908e-03
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202100	_at	4H	5.955068e-03	226952	_at	4H	6.490511e-03
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225177	_at	4H	5.969115e-03	223584	_s_at	4H	6.490511e-03
224937	_at	4H	5.974823e-03	223650	_s_at	4H	6.490511e-03
218979	_at	4H	5.989318e-03	228747	_at	4H	6.490511e-03
217738	_at	4H	5.999666e-03	213038	_at	4H	6.490511e-03
227753	_at	4H	6.007975e-03	217835	_x_at	4H	6.490511e-03
220990	_s_at	4H	6.027546e-03	217910	_x_at	4H	6.490511e-03
217527	_s_at	4H	6.032107e-03	203297	_s_at	4H	6.490511e-03
218578	_at	4H	6.035681e-03	204554	_at	4H	6.490511e-03
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244398	_x_at	4H	6.041987e-03	221269	_s_at	4H	6.490511e-03
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1555497	_a_at	4H	6.062011e-03	222218	_s_at	4H	6.490511e-03
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1555812	_a_at	4H	6.080245e-03	210176	_at	4H	6.490511e-03
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228020	_at	4H	6.090835e-03	200989	_at	4H	6.490511e-03
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222893	_s_at	4H	6.134621e-03	201094	_at	4H	6.525788e-03
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219157	_at	4H	6.15741e-03	202770	_s_at	4H	6.558034e-03
225126	_at	4H	6.177704e-03	227521	_at	4H	6.580196e-03
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204268	_at	4H	6.192328e-03	218196	_at	4H	6.610252e-03
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211686_s_at	4H	9.479538e-03	202392_s_at	4H	0.01
218229_s_at	4H	9.487953e-03	203126_at	4H	0.01
204713_s_at	4H	9.490731e-03	207266_x_at	4H	0.01
219879_s_at	4H	9.512481e-03	1552670_a_at	4H	0.01
219007_at	4H	9.519525e-03	201881_s_at	4H	0.01
203030_s_at	4H	9.525721e-03	201556_s_at	4H	0.01
207968_s_at	4H	9.538223e-03	210117_at	4H	0.01
224669_at	4H	9.540365e-03	1555255_a_at	4H	0.01
209653_at	4H	9.546478e-03	223583_at	4H	0.01
221381_s_at	4H	9.549635e-03	225367_at	4H	0.01
224783_at	4H	9.582344e-03	226092_at	4H	0.01
222739_at	4H	9.602496e-03	200039_s_at	4H	0.01
220341_s_at	4H	9.616116e-03	207440_at	4H	0.01
202540_s_at	4H	9.616354e-03	207008_at	4H	0.01
211051_s_at	4H	9.644487e-03	226064_s_at	4H	0.01
204627_s_at	4H	9.646716e-03	1552419_s_at	4H	0.01

221987_s_at	4H	0.01
220123_at	4H	0.01
214525_x_at	4H	0.01
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229426_at	4H	0.01
210907_s_at	4H	0.01
200794_x_at	4H	0.01
223835_x_at	4H	0.01
203361_s_at	4H	0.01
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218571_s_at	4H	0.01
207571_x_at	4H	0.01
224097_s_at	4H	0.01
224831_at	4H	0.01

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214934_at	4H	0.01		205568	at	4H	0.01
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221664_s_at	4H	0.01		1553422	s_at	4H	0.01
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221287_at	4H	0.01		206286	s_at	4H	0.01
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210449_x_at	4H	0.01		205671	s_at	4H	0.01
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1552617_a_at	4H	0.01		203133	at	4H	0.01
1558254_s_at	4H	0.01		37028	at	4H	0.01
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206208_at	4H	0.01		221311	x_at	4H	0.01
217583_at	4H	0.01		228184	at	4H	0.01
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223000_s_at	4H	0.01		1568592	at	4H	0.01
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208410_x_at	4H	0.01		228183	s_at	4H	0.01
222493_s_at	4H	0.01		206462	s_at	4H	0.01
205016_at	4H	0.01		208268	at	4H	0.01
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213437_at	4H	0.01		1561286	a_at	4H	0.01
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219816_s_at	4H	0.01		226619	at	4H	0.01
230421_at	4H	0.01		203478	at	4H	0.01
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200664_s_at	4H	0.01		218575	at	4H	0.01
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212817_at	4H	0.01		236087	at	4H	0.01
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203575	_at	4H	0.01	204908_s_at	4H	0.01
214118	_x_at	4H	0.01	209149_s_at	4H	0.01
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202727	_s_at	4H	0.01	200800_s__at	4H	0.01
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1553900	_s_at	4H	0.01	206236_at	4H	0.01
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211909	_x_at	4H	0.01	217109_at	4H	0.01
218383	_at	4H	0.01	220419_s_at	4H	0.01
208804	_s_at	4H	0.01	220476_s_at	4H	0.01
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203360	_s_at	4H	0.01	211848_s_at	4H	0.01
207238	_s_at	4H	0.01	208546_x_at	4H	0.01
224 334	_s_at	4H	0.01	209251_x_at	4H	0.01
230953	_at	4H	0.01	38290_at	4H	0.01
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31837	_at	4H	0.01	224 625_x_at	4H	0.01
219647	_at	4H	0.01	214210_at	4H	0.01
222134	_at	4H	0.01	209328_x_at	4H	0.01
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202882	_x_at	4H	0.01	221077_at	4H	0.01
200672	_x_at	4H	0.01	211297_s_at	4H	0.01
205285	_s_at	4H	0.01	204328_at	4H	0.01
207625	_s_at	4H	0.01	224452_s_at	4H	0.01
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225073	_at	4H	0.01	220744_s_at	4H	0.01
235507	_at	4H	0.01	218791_s_at	4H	0.01
218655	_s_at	4H	0.01	218582_at	4H	0.01
219334	_s_at	4H	0.01	202872_at	4H	0.01
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203679 _at	4H	0.01	
206550_ s_at	4H	0.01	
202083 _s_at	4H	0.01	
219877 _at	4H	0.01	
208593 _x_at	4H	0.01	
203845 _at	4H	0.01	
217918 _at	4H	0.01	
211102 _s_at	4H	0.01	
220794 _at	4H	0.01	
218924 _s_at	4H	0.01	
209511 _at	4H	0.01	
227153 _at	4H	0.01	
206983 _at	4H	0.01	
1553626 _a_at	4H	0.01	
202168 _at	4H	0.01	
201830 _s_at	4H	0.01	
216054 _x_at	4H	0.01	
204312 _x_at	4H	0.01	
202789 _at	4H	0.01	
208374 _s_at	4H	0.01	
205036 _at	4H	0.01	
222508 _s_at	4H	0.01	
239738 _at	4H	0.01	
224593 _at	4H	0.01	
225074 _at	4H	0.01	
202845 _'s_at	4H	0.01	
233640 _x_at	4H	0.01	
209481 _at	4H	0.01	
205090 _s_at	4H	0.01	
201813 _s_at	4H	0.01	
228224 _at	4H	0.01	
200826 _at	4H	0.01	
202811 _at	4H	0.01	
222693 _at	4H	0.01	
214507 _s_at	4H	0.01	
219997 _s_at	4H	0.01	
214508 _x_at	4H	0.01	
202766 _s_at	4H	0.01	
202565 _s_at	4H	0.01	
212885 _at	4H	0.01	
218812 _s_at	4H	0.01	
236274 _at	4H	0.01	
217992 _s_at	4H	0.01	
224824 _at	4H	0.01	
230721 _at	4H	0.01	
AFFX-HUMGAPDH/ M33197	4H	0.01	
205523 _at	4H	0.01	
1558333 _at	4H	0.01	
201271 _s_at	4H	0.01	
207705 _s_at	4H	0.01	
219191 _s_at	4H	0.01	
203668 _at	4H	0.01	
1552857 _a_at	4H	0.01	
203010 _at	4H	0.01	
1561225 _at	4H	0.01	
220985 _s_at	4H	0.01	
201137 _s_at	4H	0.01	
202460 _s_at	4H	0.01	

206382 _s_at	4H	0.01	
226119 "_at	4H	0.01	
202306 "_at	4H	0.01	
217952 "_x_at	4H	0.01	
224637 "_at	4H	0.01	
1554182 _at	4H	0.01	
218118 _s_at	4H	0.01	
224736 "_at	4H	0.01	
211672 "_s_at	4H	0.01	
211991 "_s_at	4H	0.01	
205104 _at	4H	0.01	
203142 "_s_at	4H	0.01	
203171 "_s_at	4H	0.01	
232843 "_s_at	4H	0.01	
220977 "_x_at	4H	0.01	
207988 _s_at	4H	0.01	
210995 _s_at	4H	0.01	
225899 "_x_at	4H	0.01	
218982 "_s_at	4H	0.01	
204923 "_at	4H	0.01	
213592 "_at	4H	0.01	
203272 "_s_at	4H	0.01	
206826 _at	4H	0.01	
206571 "_s_at	4H	0.01	
200652 "_at	4H	0.01	
212971 "_at	4H	0.01	
1552737 _s_at	4H	0.01	
218023 _s_at	4H	0.01	
244011 "_at	4H	0.01	
219503 _s_at	4H	0.01	
217985 "_s_at	4H	0.01	
232486 _at	4H	0.01	
202298 _at	4H	0.01	
202228 "_s_at	4H	0.01	
217837 "_s_at	4H	0.01	
204450 _x_at	4H	0.01	
209248 _at	4H	0.01	
225852 _at	4H	0.01	
223240 "_at	4H	0.01	
205554 "_s_at	4H	0.01	
218583 "_s_at	4H	0.01	
211396 "_at	4H	0.01	
215054 "_at	4H	0.01	
244439 "_at	4H	0.01	
221060 "_s_at	4H	0.01	
241937 _s_at	4H	0.01	
212500 _at	4H	0.01	
218263 _s_at	4H	0.01	
224439 "_x_at	4H	0.01	
225956 _at	4H	0.01	
225475 _at	4H	0.01	
226507 _at	4H	0.01	
AFFX-HUMGAPDH/ M33197	4H	0.01	
220235 _s_at	4H	0.01	
218610 _s_at	4H	0.01	
213453 "_x_at	4H	0.01	
216338 _s_at	4H	0.01	
216237 _s_at	4H	0.01	
204225 _at	4H	0.01	
222737 "_s_at	4H	0.01	
222537 _s_at	4H	0.01	
222642 "_s_at	4H	0.01	
212242 "_at	4H	0.01	

71029_x_at	%ii	DTOf	220345_at	4H	0.01
202858_at	4H	0.01	207787_at	4H	0.01
205467_at	4H	0.01	207842_s_at	4H	0.01
206765_at	4H	0.01	228648_at	4H	0.01
205603_s_at	4H	0.01	213218_[at	4H	0.01
209103_s_at	4H	0.01	223121_s_at	4H	0.01
1563111_a_at	4H	0.01	220673_s_at	4H	0.01
1552264_a_at	4H	0.01	224692~at	4H	0.01
1552798_a_at	4H	0.01	211521_s_at	4H	0.01
200625_s_at	4H	0.01	220052_s_at	4H	0.01
200814_at	4H	0.01	223294_at	4H	0.01
201412_at	4H	0.01	201276_at	4H	0.01
201463_s_at	4H	0.01	218890_x_at	4H	0.01
200940_s_at	4H	0.01	218637_at	4H	0.01
201140_s_at	4H	0.01	227220_at	4H	0.01
235303_at	4H	0.01	213312_at	4H	0.01
202728_s_at	4H	0.01	1554325!_a_at	4H	0.01
221587_s_at	4H	0.01	155862C)_at	4H	0.01
210784_x_at	4H	0.01	202907_s_at	4H	0.01
205179_s_at	4H	0.01	214198_s_at	4H	0.01
210249_s_at	4H	0.01	210506_at	4H	0.01
222529_at	4H	0.01	237806_s_at	4H	0.01
221451_s_at	4H	0.01	205068_s_at	4H	0.01
209989_at	4H	0.01	211538_s_at	4H	0.01
221453_at	4H	0.01	209067_s_at	4H	0.01
33132_at	4H	0.01	1562637r_at	4H	0.01
200882_s_at	4H	0.01	210336_x_at	4H	0.01
209206_at	4H	0.01	201592_at	4H	0.01
202966_at	4H	0.01	208863_s_at	4H	0.01
221808_at	4H	0.01	220702_at	4H	0.01
220079_s_at	4H	0.01	211609_x_at	4H	0.01
200881_s_at	4H	0.01	202434_s_at	4H	0.01
205965_at	4H	0.01	203761_at	4H	0.01
220746_s_at	4H	0.01	218360_at	4H	0.01
211982_x_at	4H	0.01	204146_at	4H	0.01
223057_s_at	4H	0.01	220467_at	4H	0.01
225260_s_at	4H	0.01	230261_at	4H	0.01
203168_at	4H	0.01	220539_at	4H	0.01
202626_s_at	4H	0.01	204562_at	4H	0.01
218741_at	4H	0.01	235298_at	4H	0.01
210438_x_at	4H	0.01	226611_s_at	4H	0.01
237730_at	4H	0.01	226970_at	4H	0.01
1553539_at	4H	0.01	222800_at	4H	0.01
223711_s_at	4H	0.01	217797_at	4H	0.01
224860_at	4H	0.01	213001_at	4H	0.01
218926_at	4H	0.01	1555478_at	4H	0.01
201546_at	4H	0.01	222483_at	4H	0.01
202198_s_at	4H	0.01	205127_at	4H	0.01
223064_at	4H	0.01	235327_x_at	4H	0.01
201392_s_at	4H	0.01	203607_at	4H	0.01
227666_at	4H	0.01	223288_at	4H	0.01
227217_at	4H	0.01	1553568_a_at	4H	0.01
218249_at	4H	0.01	207721_x_at	4H	0.01
200905_x_at	4H	0.01	244103_at	4H	0.01
200620_at	4H	0.01	236965_at	4H	0.01
221643_s_at	4H	0.01	1553269_at	4H	0.01
209083_at	4H	0.01	201453_x_at	4H	0.01
237099_at	4H	0.01	204800_s_at	4H	0.01
211070_x_at	4H	0.01	218609_s_at	4H	0.01
221597_s_at	4H	0.01	201874_at	4H	0.01
238996_x_at	4H	0.01	220583_at	4H	0.01
208676_s_at	4H	0.01	225403_at	4H	0.01
223197_s_at	4H	0.01	1554500_a_at	4H	0.01
212818_s_at	4H	0.01	221401_at	4H	0.01

1n 89io_at is 0.01				233979_ s_at	4H	0.01
218526 _s_at	4H	0.01		200674 _s_at	4H	0.01
228393 _s_at	4H	0.01		206578 _at	4H	0.01
229900 _at	4H	0.01		201585 _s_at	4H	0.01
223634 _at	4H	0.01		203333 _at	4H	0.01
1567458 _s_at	4H	0.01		206643 _at	4H	0.01
221257 _x_at	4H	0.01		224731 _at	4H	0.01
202377 _at	4H	0.01		225378 _at	4H	0.01
230511 _at	4H	0.01		228318 _s_at	4H	0.01
201745 _at	4H	0.01		220005 _at	4H	0.01
218007 _s_at	4H	0.01		212360 _at	4H	0.01
201010 _s_at	4H	0.01		212264 _s_at	4H	0.01
221492 _s_at	4H	0.01		212794 _s_at	4H	0.01
201783 _s_at	4H	0.01		213133 _s_at	4H	0.01
201594 _s_at	4H	0.01		218289 _s_at	4H	0.01
232104 _at	4H	0.01		204748 _at	4H	0.01
204401 _at	4H	0.01		204222 _s_at	4H	0.01
218629 _at	4H	0.01		204638 _at	4H	0.01
230308 _at	4H	0.01		221425 _s_at	4H	0.01
32811 _at	4H	0.01		220691 _at	4H	0.01
219681 _s_at	4H	0.01		221511 _x_at	4H	0.01
200798 _x_at	4H	0.01		223167 _s_at	4H	0.01
232114 _at	4H	0.01		211806 _s_at	4H	0.01
211231 _x_at	4H	0.01		210818 _s_at	4H	0.01
233968 _at	4H	0.01		211429 _s_at	4H	0.01
224796 _at	4H	0.01		202399 _s_at	4H	0.01
211749 _s_at	4H	0.01		203005 _at	4H	0.01
216234 _s_at	4H	0.01		205306 _x_at	4H	0.01
207 676_at	4H	0.01		205566 _at	4H	0.01
201117 _s_at	4H	0.01		209020 _at	4H	0.01
232990 _at	4H	0.01		201943 _s_at	4H	0.01
221190 _s_at	4H	0.01		200959 _at	4H	0.01
1568658 _at	4H	0.01		201641 _at	4H	0.01
200611 _s_at	4H	0.01		224327_ s_at	4H	0.01
201406 _at	4H	0.01		207711 _at	4H	0.01
216522 _at	4H	0.01		203944 _x_at	4H	0.01
202030 _at	4H	0.01		218984 _at	4H	0.01
208249 _s_at	4H	0.01		202498 _s_at	4H	0.01
220326 _s_at	4H	0.01		221558 _s_at	4H	0.01
210160 _at	4H	0.01		223255 _at	4H	0.01
201293 _x_at	4H	0.01		208332 _at	4H	0.01
226780 _s_at	4H	0.01		204360 _s_at	4H	0.01
57588 _at	4H	0.01		223176 _at	4H	0.01
1562901 _at	4H	0.01		220483 _s_at	4H	0.01
202506 _at	4H	0.01		208031 _s_at	4H	0.01
223073 _at	4H	0.01		236270 _at	4H	0.01
202818 _s_at	4H	0.01		214321 _at	4H	0.01
213378 _s_at	4H	0.01		208093 _s_at	4H	0.02
206445 _s_at	4H	0.01		243661 _at	4H	0.02
209484 _s_at	4H	0.01		222438 _at	4H	0.02
201651 _s_at	4H	0.01		203023 _at	4H	0.02
213160 _at	4H	0.01		202748 _at	4H	0.02
206113 _s_at	4H	0.01		1553868 _a_at	4H	0.02
230879 _at	4H	0.01		229534 _at	4H	0.02
219436 _s_at	4H	0.01		210954 _s_at	4H	0.02
208729 _x_at	4H	0.01		205097 _at	4H	0.02
226515 _at	4H	0.01		204531 _s_at	4H	0.02
202800 _at	4H	0.01		221547 _at	4H	0.02
233387 _s_at	4H	0.01		210097 _s_at	4H	0.02
203376 _at	4H	0.01		227787 _s_at	4H	0.02
212667 _at	4H	0.01		211981 _at	4H	0.02
224614 _at	4H	0.01		200963 _x_at	4H	0.02
229663 _at	4H	0.01		208101 _s_at	4H	0.02
225317 _at	4H	0.01		223531 _x_at	4H	0.02

2 252 40 s_at	-tH	0.02
215189 _at	4H	0.02
200925 _at	4H	0.02
207275 _s_at	4H	0.02
218101 _s_at	4H	0.02
243042 _at	4H	0.02
209130 _at	4H	0.02
205723 _at	4H	0.02
219690 _at	4H	0.02
217078 _s_at	4H	0.02
208094 _s_at	4H	0.02
202009 _at	4H	0.02
203292 _s_at	4H	0.02
225189 _s_at	4H	0.02
223163 _s_at	4H	0.02
230769 _at	4H	0.02
47550 _at	4H	0.02
211885 _x_at	4H	0.02
223347 _at	4H	0.02
227796 _at	4H	0.02
65591 _at	4H	0.02
211433 _x_at	4H	0.02
210140 _at	4H	0.02
1557719 _at	4H	0.02
201111 _at	4H	0.02
219774 _at	4H	0.02
201596 _x_at	4H	0.02
222997 _s_at	4H	0.02
205406 _s_at	4H	0.02
218852 _at	4H	0.02
229638 _at	4H	0.02
214007 _s_at	4H	0.02
208646 _at	4H	0.02
227790 _at	4H	0.02
1565031 _s_at	4H	0.02
213349 _at	4H	0.02
231570 _at	4H	0.02
201145 _at	4H	0.02
208637 _x_at	4H	0.02
155834U 5 a_at	4H	0.02
211738 _x_at	4H	0.02
224138 _at	4H	0.02
224609 _at	4H	0.02
218855 _at	4H	0.02
210128 _s_at	4H	0.02
235503 _at	4H	0.02
219123 _at	4H	0.02
200980 _s_at	4H	0.02
204131 _s_at	4H	0.02
200663 _at	4H	0.02
205888 _s_at	4H	0.02
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207251 _at	4H	0.02
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220650 _s_at	4H	0.02
215127 _s_at	4H	0.02
231549 _at	4H	0.02
207364 _at	4H	0.02
231982 _at	4H	0.02
206115 _at	4H	0.02
201905 _s_at	4H	0.02
320 _at	4H	0.02

217478 __s_at	4H	0.02
2067 62_at	4H	0.02
205857_at	4H	0.02
220156_at	4H	0.02
203450_at	4H	0.02
209434_s_at	4H	0.02
213527_s_at	4H	0.02
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200062_s_at	4H	0.02
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221610_s_at	4H	0.02
202444_s_at	4H	0.02
219451_at	4H	0.02
200843_s_at	4H	0.02
216962_at	4H	0.02
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241661_at	4H	0.02
202887_s_at	4H	0.02
234519_at	4H	0.02
233842_x_at	4H	0.02
203474_at	4H	0.02
203951_at	4H	0.02
204235_s_at	4H	0.02
217902_s_at	4H	0.02
221517_s_at	4H	0.02
212864_at	4H	0.02
204351_at	4H	0.02
1557793_at	4H	0.02
209306_s_at	4H	0.02
224430_s_at	4H	0.02
225182_at	4H	0.02
1553526_at	4H	0.02
206794_at	4H	0.02
1553852_at	4H	0.02
207186_s_at	4H	0.02
215925_s_at	4H	0.02
223626_x_at	4H	0.02
209105_at	4H	0.02
206514_s_at	4H	0.02
206405_x_at	4H	0.02
1552316_a_at	4H	0.02
219849_at	4H	0.02
207872_s_at	4H	0.02
217764_s_at	4H	0.02
200014_s_at	4H	0.02
207018_s_at	4H	0.02
205327_s_at	4H	0.02
218122_s_at	4H	0.02
224836_at	4H	0.02
201298_s_at	4H	0.02
217773_s_at	4H	0.02
206250_x_at	4H	0.02
227151_at	4H	0.02
211085_s_at	4H	0.02
226443_at	4H	0.02
219473_at	4H	0.02
211657_at	4H	0.02
203097_s_at	4H	0.02
222547_at	4H	0.02
233496_s_at	4H	0.02
211883 _x_at	4H	0.02

1552310_at	4H	0.02		207843_x_at	4H	0.02
202215_s_at	4H	0.02		222010_at	4H	0.02
224320_s_at	4H	0.02		201266_at	4H	0.02
222744_s_at	4H	0.02		212087_s_at	4H	0.02
1569062_s_at	4H	0.02		218483_s_at	4H	0.02
206454_s_at	4H	0.02		216824_at	4H	0.02
225032_at	4H	0.02		219766_at	4H	0.02
239835_at	4H	0.02		208835_s_at	4H	0.02
220059_at	4H	0.02		219611_s_at	4H	0.02
219037_at	4H	0.02		206659_at	4H	0.02
213370_s_at	4H	0.02		209743_s_at	4H	0.02
214746_s_at	4H	0.02		202011_at	4H	0.02
218035_s_at	4H	0.02		216074_x_at	4H	0.02
217989_at	4H	0.02		222578_s_at	4H	0.02
218170_at	4H	0.02		218520_at	4H	0.02
203388_at	4H	0.02		210093_s_at	4H	0.02
204479_at	4H	0.02		205279_s_at	4H	0.02
222494_at	4H	0.02		222235_s_at	4H	0.02
223451_s_at	4H	0.02		227865_at	4H	0.02
223047_at	4H	0.02		206688_s_at	4H	0.02
210386_s_at	4H	0.02		221692_s_at	4H	0.02
210754_s_at	4H	0.02		202539_s_at	4H	0.02
209945_s_at	4H	0.02		204959_at	4H	0.02
210951_x_at	4H	0.02		208445_s_at	4H	0.02
209586_s_at	4H	0.02		218451_at	4H	0.02
203020_at	4H	0.02		211814_s_at	4H	0.02
202708_s_at	4H	0.02		226007_at	4H	0.02
209398_at	4H	0.02		1552258_at	4H	0.02
207624_s_at	4H	0.02		1552425_a_at	4H	0.02
1553703_at	4H	0.02		207649_at	4H	0.02
1552426_a_at	4H	0.02		217048_at	4H	0.02
1558699_a_at	4H	0.02		207973_x_at	4H	0.02
200732_s_at	4H	0.02		1552296_at	4H	0.02
200704_at	4H	0.02		239212_at	4H	0.02
201991_s_at	4H	0.02		200002_at	4H	0.02
221764_at	4H	0.02		243592_at	4H	0.02
233341_s_at	4H	0.02		218336_at	4H	0.02
225698_at	4H	0.02		207857_at	4H	0.02
232087_at	4H	0.02		207655_s_at	4H	0.02
221471_at	4H	0.02		213483_at	4H	0.02
231001_at	4H	0.02		1553088_a_at	4H	0.02
212203_x_at	4H	0.02		209207_s_at	4H	0.02
216503_s_at	4H	0.02		238440_at	4H	0.02
222548_s_at	4H	0.02		226794_at	4H	0.02
226866_at	4H	0.02		219442_at	4H	0.02
223259_at	4H	0.02		227230_s_at	4H	0.02
1553311_at	4H	0.02		203810_at	4H	0.02
217737_x_at	4H	0.02		219266_at	4H	0.02
231877_at	4H	0.02		209310_s_at	4H	0.02
221379_at	4H	0.02		229886_at	4H	0.02
205921_s_at	4H	0.02		222464_s_at	4H	0.02
214298_x_at	4H	0.02		242017_at	4H	0.02
210749_x_at	4H	0.02		220149_at	4H	0.02
209780_at	4H	0.02		225527_at	4H	0.02
222847_s_at	4H	0.02		220590_at	4H	0.02
205791_x_at	4H	0.02		203820_s_at	4H	0.02
202560_s_at	4H	0.02		207844_at	4H	0.02
219104_at	4H	0.02		202391_at	4H	0.02
224308_s_at	4H	0.02		208523_x_at	4H	0.02
202692_s_at	4H	0.02		223144_s_at	4H	0.02
224074_at	4H	0.02		214014_at	4H	0.02
219027_s_at	4H	0.02		38269_at	4H	0.02
217186_at	4H	0.02		202428_x_at	4H	0.02
203058_s_at	4H	0.02		212333_at	4H	0.02

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208877 _at	4H	0.02	240579 _at	4H	0.02
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200096 _s_at	4H	0.02	220508 _at	4H	0.02
205192 _at	4H	0.02	205774 _at	4H	0.02
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1569805 _at	4H	0.02	209112 _at	4H	0.02
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218793 _s_at	4H	0.02	200960 _x_at	4H	0.02
224825 _at	4H	0.02	213851 _at	4H	0.02
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221551 _x_at	4H	0.02	208828 _at	4H	0.02
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209567 _at	4H	0.02	228298 _at	4H	0.02
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222163 _s_at	4H	0.02	219243 _at	4H	0.02
232654 _s_at	4H	0.02	222874 _s_at	4H	0.02
202531 _at	4H	0.02	203579 _s_at	4H	0.02
225422 _at	4H	0.02	231896 _s_at	4H	0.02
214705 _at	4H	0.02	214606 _at	4H	0.02
222191 _s_at	4H	0.02	237504 _at	4H	0.02
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215984 _s_at	4H	0.02	211378 _x_at	4H	0.02
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207636 _at	4H	0.02	217871 _s_at	4H	0.02
212270 _x_at	4H	0.02	206848 _at	4H	0.02
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224575 _at	4H	0.02	224988 _at	4H	0.02
223313 _s_at	4H	0.02	224837 _at	4H	0.02
203591 _s_at	4H	0.02	224667 _x_at	4H	0.02
218643 _s_at	4H	0.02	244752 _at	4H	0.02
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211555 _s_at	4H	0.02	55705 _at	4H	0.02
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1552274 _at	4H	0.02	215165 _x_at	4H	0.02
37966 _at	4H	0.02	218107 _at	4H	0.02

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209332_s_at	4H	0.02		218807_at	4H	0.02
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220558_x_at	4H	0.02		201328_at	4H	0.03
200804_at	4H	0.02		203434_s_at	4H	0.03
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244118_at	4H	0.02		218210_at	4H	0.03
218717_s_at	4H	0.02		201383_s_at	4H	0.03
208740_at	4H	0.02		208864_s_at	4H	0.03
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214337_at	4H	0.03	215983_s_at	4H	0.03
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207338_s_at	4H	0.03	209131_s_at	4H	0.04
200791_s_at	4H	0.03	209026_x_at	4H	0.04
221613_s_at	4H	0.03	1552703_s__at	4H	0.04
1553579_a_at	4H	0.03	1557227_s_at	4H	0.04
207254_at	4H	0.03	200776_s_at	4H	0.04
214181_x_at	4H	0.03	201060_x_at	4H	0.04
221090_s_at	4H	0.03	201805_at	4H	0.04
211250_s_at	4H	0.03	202635_s_at	4H	0.04
210646_x_at	4H	0.03	205051_s_at	4H	0.04
226531_at	4H	0.03	207990_x_at	4H	0.04
226042_at	4H	0.03	219762_s_at	4H	0.04
212836_at	4H	0.03	200713_s_at	4H	0.04
219737_s_at	4H	0.03	203672_x_at	4H	0.04
205567_at	4H	0.03	209962_at	4H	0.04
208076_at	4H	0.03	208766_s_at	4H	0.04
200683_s_at	4H	0.03	202084_s_at	4H	0.04
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208948_s_at	4H	0.03	209211_at	4H	0.04
204178_s_at	4H	0.03	1569932_at	4H	0.04
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201336	_at	4H	0.04	204839	_at	4J	3.44e-04
203046	_s_at	4H	0.04	230528	_s_at	4J	3.47e-04
219305	_x_at	4H	0.04	222505	_at	4J	3.48e-04
212566	_at	4H	0.04	201417	_at	4J	3.49e-04
214632	_at	4H	0.04	203389	_at	4J	3.59e-04
238687	_x_at	4H	0.04	230489	_at	4J	3.63e-04
1557915	_s_at	4H	0.04	223212	_at	4J	3.66e-04
235037	_at	4H	0.04	206739	_at	4J	3.73e-04
217834	_s_at	4H	0.04	207990	_x_at	4J	3.78e-04
218754	_at	4J	2.51e-06	215606	_s_at	4J	3.89e-04
209441	_at	4J	3.5e-06	206429	_at	4J	3.9e-04
209881	_s_at	4J	9.81e-06	208441	_at	4J	3.95e-04
214696	_at	4J	1.15e-05	230214	_at	AJ	4.03e-04
214688	_at	4J	1.18e-05	214706	_at	4J	4.04e-04
205960	_at	4J	2.22e-05	206177	_s_at	4J	4.09e-04
218441	_s_at	4J	3.28e-05	208779	_x_at	4J	4.13e-04
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206495	_s_at	4J	4.54e-05	207665	_at	4J	4.43e-04
204510	_at	4J	5.25e-05	220784	_s_at	4J	4.5e-04
207979	_s_at	4J	5.63e-05	229665	_at	4J	4.67e-04
224550	_s_at	4J	6.06e-05	205193	_at	4J	4.86e-04
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204461_x_at	4J	0.04	206495_s_at	4L	4.54e-05
201391_at	4J	0.04	218986_s_at	4L	4.92e-05
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231778_at	4J	0.04	206205_at	4L	9.92e-05
208897_s_at	4J	0.04	225255_at	4L	1.27e-04
215880_at	4J	0.04	203914_x_at	4L	1.49e-04
224481_s_at	4J	0.04	209902_at	4L	1.54e-04
220471_s_at	4J	0.04	222631_at	4L	1.6e-04
206133_at	4J	0.04	211530_x_at	4L	1.65e-04
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221670_s_at	4J	0.04	226767_s_at	4L	2.28e-04
210459_at	4J	0.04	201490_s_at	4L	2.37e-04
232162_at	4J	0.04	220426_at	4L	2.4e-04
211067_s_at	4J	0.04	203471_s_at	4L	2.46e-04
226749_at	4J	0.04	220033_at	4L	2.68e-04
207619_at	4J	0.04	223626_x_at	4L	2.71e-04
201054_at	4J	0.04	218794_s_at	4L	2.71e-04
225210_s_at	4J	0.04	222480_at	4L	2.81e-04
201458_s_at	4J	0.04	222311_s_at	4L	2.98e-04
209165_at	4J	0.04	214427_at	4L	3.01e-04
219118_at	4J	0.04	225424_at	4L	3.02e-04
212101_at	4J	0.04	203576_at	4L	3.02e-04
201037_at	4J	0.04	204787_at	4L	3.06e-04
210271_at	4J	0.04	206039_at	4L	3.16e-04
200857_s_at	4J	0.04	1570373_at	4L	3.22e-04
1555371_at	4J	0.04	218133_s_at	4L	3.26e-04
214003_x_at	4J	0.04	205715_at	4L	3.31e-04
202505_at	4J	0.04	204839_at	4L	3.44e-04
214166_at	4J	0.04	1553020_at	4L	3.46e-04
221951_at	4J	0.04	230528_s_at	4L	3.47e-04
223583_at	4J	0.04	206739_at	4L	3.73e-04
219121_s_at	4J	0.04	1563657_at	4L	3.74e-04
243426_at	4J	0.04	214706_at	4L	4.04e-04
206306_at	4J	0.04	206177_s_at	4L	4.09e-04
225948_at	4J	0.04	217094_s_at	4L	4.18e-04
211433_x_at	4J	0.04	212792_at	4L	4.41e-04
221658_s_at	4J	0.04	204972_at	4L	4.41e-04
200905_x_at	4J	0.04	203712_at	4L	4.44e-04
224187_x_at	4J	0.04	229665_at	4L	4.67e-04
200768_s_at	4J	0.04	230214_at	4L	4.71e-04
208153_s_at	4J	0.04	205193_at	4L	4.86e-04
204269_at	4J	0.04	213846_at	4L	4.96e-04
204398_s_at	4J	0.04	222656_at	4L	5.02e-04
1569073_x_at	4J	0.04	207768_at	4L	5.26e-04
207206_s_at	4J	0.04	242727_at	4L	5.36e-04
201522_x_at	4J	0.04	203472_s_at	4L	5.38e-04
213203_at	4J	0.04	231406_at	4L	5.61e-04

209021_x_at	4L	5.69e-04
45288_at	4L	5.71e-04
1555728_a_at	4L	5.89e-04
214581_x_at	4L	6.01e-04
208398_s_at	4L	6.24e-04
1568934_at	4L	6.26e-04
203019_x_at	4L	6.3e-04
211372_s_at	4L	6.34e-04
208895_s_at	4L	6.37e-04
212079_s_at	4L	6.43e-04
218942_at	4L	6.47e-04
211548_s_at	4L	6.63e-04
202710_at	4L	6.7e-04
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220047_at	4L	6.82e-04
227916_x_at	4L	6.93e-04
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204143_s_at	4L	6.93e-04
1553186_x_at	4L	6.93e-04
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207001_x_at	4L	7.61e-04
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200053_at	4L	7.74e-04
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226784_at	4L	7.88e-04
65493_at	4L	8.01e-04
219952_s_at	4L	8.14e-04
203400_s_at	4L	8.15e-04
1553335_x_at	4L	8.22e-04
203470_s_at	4L	8.53e-04
211413_s_at	4L	8.62e-04
203913_s_at	4L	8.7e-04
224797_at	4L	8.77e-04
218957_s_at	4L	8.97e-04
218575_at	4L	9.37e-04
208366_at	4L	9.39e-04
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223148_at	4L	9.94e-04
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233986_s_at	4L	1.012704e-03
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220986_s_at	4L	1.304539e-03

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214285_at	4L	1.797789e-03
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219998_at	4L	2.069871e-03	212078_s_at	4L	2.817819e-03
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49679_s_at	4L	2.09808e-03	225853_at	4L	2.83982e-03
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214440_at	4L	2.186375e-03	206336_at	4L	2.891885e-03
222625_s_at	4L	2.192633e-03	217491_x_at	4L	2.893314e-03
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222793_at	4L	2.291051e-03	215599_at	4L	3.020479e-03
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234864_s_at	4L	2.72241e-03	220000_at	4L	3.271844e-03
218117_at	4L	2.73837e-03	203890_s_at	4L	3.278356e-03
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212111_at	4L	3.288839e-03	220012_at	4L	4.169867e-03
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215336_at	4L	3.359689e-03	1570253_a_at	4L	4.215174e-03
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233970_s_at	4L	3.498488e-03	1553695_a_at	4L	4.276967e-03
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212831_at	4L	3.64717e-03	223789_s_at	4L	4.322517e-03
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223244_s_at	4L	3.69596e-03	214438_at	4L	4.341023e-03
1568590_at	4L	3.699264e-03	201535_at	4L	4.345488e-03
217896_A_at	4L	3.70718e-03	210740_s_at	4L	4.381057e-03
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219128_at	4L	3.730378e-03	205173_x_at	4L	4.42403e-03
1553134_s_at	4L	3.741001e-03	1553103_at	4L	4.436775e-03
224803_s_at	4L	3.75842e-03	219234_x_at	4L	4.444865e-03
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212429_s_at	4L	3.791462e-03	210775_x_at	4L	4.498414e-03
201226_at	4L	3.798989e-03	213835_x_at	4L	4.498653e-03
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220114_s_at	4L	3.916327e-03	218104_at	4L	4.540706e-03
224632_at	4L	3.91691e-03	218470_at	4L	4.540706e-03
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1568678_s_at	4L	3.941424e-03	210125_s_at	4L	4.540706e-03
227475_at	4L	3.942521e-03	212222_at	4L	4.540706e-03
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224563_at	4L	3.966137e-03	209198_s_at	4L	4.540706e-03
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226442_at	4L	3.989061e-03	207798_s_at	4L	4.548173e-03
208182_x_at	4L	4.003438e-03	201707_at	4L	4.548173e-03
206372_at	4L	4.025154e-03	225173_at	4L	4.558151e-03
1552575_a_at	4L	4.052573e-03	212355_at	4L	4.563473e-03
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206522_at	4L	4.109188e-03	221057_at	4L	4.616387e-03
219378_at	4L	4.155643e-03	243290_at	4L	4.639016e-03
1553272_at	4L	4.158695e-03	1553185_at	4L	4.648116e-03
202567_at	4L	4.165784e-03	221484_at	4L	4.653267e-03

230422_at	4L	4.655478e-03	1555015_a_at	4L	5.543429e-03
202475_at	4L	4.683878e-03	203269_at	4L	5.558709e-03
238547_at	4L	4.71227e-03	209329_x_at	4L	5.564556e-03
214455_at	4L	4.725207e-03	218611_at	4L	5.577908e-03
210380_s_at	4L	4.73049e-03	207857_at	4L	5.601415e-03
200735_x_at	4L	4.732927e-03	225414_at	4L	5.619139e-03
227143_s_at	4L	4.738434e-03	216360_x_at	4L	5.619479e-03
212875_s_at	4L	4.747415e-03	214240_at	4L	5.620617e-03
219242_at	4L	4.752069e-03	231984_at	4L	5.638917e-03
239635_at	4L	4.775288e-03	219345_at	4L	5.64503e-03
203569_s_at	4L	4.775663e-03	228261_at	4L	5.647697e-03
227609_at	4L	4.788705e-03	219244_s_at	4L	5.660729e-03
208677_s_at	4L	4.796711e-03	213168_at	4L	5.663681e-03
209184_s_at	4L	4.835338e-03	219544_at	4L	5.667609e-03
225686_at	4L	4.836309e-03	223528_s_at	4L	5.677638e-03
218978_s_at	4L	4.861176e-03	215773_x_at	4L	5.698293e-03
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219999_at	4L	4.862771e-03	208705_s_at	4L	5.710494e-03
203060_s_at	4L	4.871872e-03	202833_s_at	4L	5.718934e-03
235139_at	4L	4.883412e-03	227850_x_at	4L	5.729189e-03
212059_s_at	4L	4.916975e-03	228009_x_at	4L	5.744989e-03
202149_at	4L	4.935738e-03	208834_x_at	4L	5.776766e-03
1554455_at	4L	4.947134e-03	239462_at	4L	5.79199e-03
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212648_at	4L	4.961377e-03	216915_s_at	4L	5.827268e-03
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1558327_at	4L	4.980841e-03	226296_s_at	4L	5.851257e-03
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221434_s_at	4L	5.020662e-03	221156_x_at	4L	5.904115e-03
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225399_at	4L	5.206619e-03	228020_at	4L	6.090835e-03
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216034_at	4L	5.489956e-03	220219_s_at	4L	6.215714e-03
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206532_at	4L	0.02		214876_s_at	4L	0.02
218715_at	4L	0.02		205876_at	4L	0.02
201274_at	4L	0.02		212872_s_at	4L	0.02
207638_at	4L	0.02		226642_s_at	4L	0.02
219157_at	4L	0.02		225153_at	4L	0.02
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225945_at	4L	0.02		226386_at	4L	0.02
223139_s_at	4L	0.02		226422_at	4L	0.02
215109_at	4L	0.02		238435_at	4L	0.02
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226016_at	4L	0.02		M9793	4L	0.02
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218905_at	4L	0.03		203698_s_at	4L	0.04
243623_at	4L	0.03		207990_x_at	4L	0.04
206150_at	4L	0.03		201966_at	4L	0.04
209158_s_at	4L	0.03		202187_s_at	4L	0.04
220460_at	4L	0.03		208766_s_at	4L	0.04
221399_at	4L	0.03		224395_s_at	4L	0.04
200060_s_at	4L	0.03		219933__at	4L	0.04
221169_s_at	4L	0.03		221208_s_at	4L	0.04
227160_s_at	4L	0.03		213492_at	4L	0.04
212767_at	4L	0.03		210341_at	4L	0.04
200755_s_at	4L	0.03		208827_at	4L	0.04
220803_at	4L	0.03		200818_at	4L	0.04
242984_at	4L	0.03		226036__x_at	4L	0.04
241959_at	4L	0.03		212244_at	4L	0.04
233173_x_at	4L	0.03		227386_s_at	4L	0.04
223253_at	4L	0.03		224093_at	4L	0.04
205395_s_at	4L	0.03		219329_s_at	4L	0.04
203298_s_at	4L	0.03		206864_s_at	4L	0.04
219631_at	4L	0.03		227063_at	4L	0.04
204989_s_at	4L	0.03		220996_s_at	4L	0.04
206796_at	4L	0.03		1554085_at	4L	0.04

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221421_s_at	4L	0.04		211548_s_at	4N	6.63e-04
238648_at	4L	0.04		209999_x_at	4N	6.64e-04
200905_x_at	4L	0.04		1567238_at	4N	6.71e-04
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204398_s_at	4L	0.04		219952_s_at	4N	8.14e-04
209366_x_at	4L	0.04		203400_s_at	4N	8.15e-04
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224550_s_at	4N	6.06e-05		202643_s_at	4N	9.94e-04
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223392 _s_at	4N	1.325957e-03
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231967 _at	4N	1.347009e-03
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207473 _at	4N	1.401622e-03
229372 _at	4N	1.403431e-03
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221575 _at	4N	1.502428e-03
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238429 _at	4N	1.553128e-03
236767 _at	4N	1.558096e-03
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218291 _at	4N	1.851775e-03
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223393 _s_at	4N	1.89833e-03
214291 _at	4N	1.914262e-03
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204194 _at	4N	1.938974e-03
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202866 _at	4N	2.28204e-03
219540 _at	4N	2.282919e-03
229594 _at	4N	2.291051e-03
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203277_at	4P	3.67e-04	221561_at	4P	8.27e-04
206739_at	4P	3.73e-04	58367_s_at	4P	8.49e-04
31807_at	4P	3.77e-04	203470_s_at	4P	8.53e-O4
201538_s_at	4P	3.77e-04	214011_s_at	4P	8.6e-04
214706_at	4P	4.04e-04	211413_s_at	4P	8.62e-04
206177_s_at	4P	4.09e-04	203913_s_at	4P	8.7e-04
208779_x_at	4P	4.13e-04	224797_at	4P	8.77e-04
217094_s_at	4P	4.18e-04	217734_s_at	4P	8.91e-04
207665_at	4P	4.43e-04	210724_at	4P	8.98e-04
203712_at	4P	4.44e-04	222625_s_at	4P	9.11e-04
220784_s_at	4P	4.5e-04	208366_at	4P	9.39e-04
219128_at	4P	4.65e-04	221229_s_at	4P	9.45e-04
229665_at	4P	4.67e-04	200998_s_at	4P	9.45e-04
230214_at	4P	4.71e-04	218826_at	4P	9.51e-04
205193_at	4P	4.86e-04	223412_at	4P	9.59e-04
213846_at	4P	4.96e-04	225573_at	4P	9.79e-04
219854_at	4P	4.97e-04	213190_at	4P	9.85e-04
206218_at	4P	4.98e-04	202781_s_at	4P	9.88e-04
226881_at	4P	4.99e-04	219999_at	4P	9.97e-04
225505_s_at	4P	4.99e-04	233986_s_at	4P	1.012704e-03
225686_at	4P	4.99e-04	236040_at	4P	1.040131e-03
224661_at	4P	5.01e-04	226764_at	4P	1.042415e-03
222656_at	4P	5.02e-04	204924_at	4P	1.048244e-03
208791_at	4P	5.21e-04	215952_s_at	4P	1.053544e-03
207768_at	4P	5.26e-04	201491_at	4P	1.057697e-03
223431_at	4P	5.29e-04	219248_at	4P	1.058886e-03
203472_s_at	4P	5.38e-04	218865_at	4P	1.059491e-03
219765_at	4P	5.4e-04	206893_at	4P	1.069659e-03
228512_at	4P	5.55e-04	211731_x_at	4P	1.094111e-03
231406_at	4P	5.61e-04	224963_at	4P	1.096514e-03
204507_3_at	4P	5.67e-04	233970_s_at	4P	1.096514e-03
209021_x_at	4P	5.69e-04	219717_at	4P	1.096514e-03
45288_at	4P	5.71e-04	218949_s_at	4P	1.096514e-03
217916_s_at	4P	5.84e-04	212872_s_at	4P	1.096514e-03
209235_at	4P	6.09e-04	215541_s_at	4P	1.096514e-03
208398_s_at	4P	6.24e-04	204352_at	4P	1.096514e-03
203019_x_at	4P	6.3e-04	220776_at	4P	1.O96514e-03
211372_s_at	4P	6.34e-04	205310_at	4P	1.096514e-03
208895_s_at	4P	6.37e-04	1553704_x_at	4P	1.096514e-03
239081_at	4P	6.4e-04	1554455_at	4P	1.096514e-03
212079_s_at	4P	6.43e-04	217774_s_at	4P	1.099898e-03
212234_at	4P	6.45e-04	220486_x_at	4P	1.116164e-03
240913_at	4P	6.58e-04	201684_s_at	4P	1.116519e-03
211548_s_at	4P	6.63e-04	200863_s_at	4P	1.121565e-03
209999_x_at	4P	6.64e-04	234733_s_at	4P	1.131629e-03
1567238_at	4P	6.71e-04	218132_s_at	4P	1.150723e-03
221206_at	4P	6.87e-04	209840_s_at	4P	1.154255e-03
228020_at	4P	6.93e-04	226338_at	4P	1.156986e-03
221489_s_at	4P	7.02e-04	207990_x_at	4P	1.158958e-03
208763_s_at	4P	7.3e-04	1563458_at	4P	1.172109e-03
227442_at	4P	7.48e-04	203760_s_at	4P	1.178358e-03
204861_s_at	4P	7.48e-04	219741_x_at	4P	1.182658e-03
202513_s_at	4P	7.48e-04	202350_s_at	4P	1.182844e-03
1569207_s_at	4P	7.48e-04	224377_s_at	4P	1.192838e-03
1554428_s_at	4P	7.48e-04	219870_at	4P	1.194518e-03
214539_at	4P	7.58e-04	203499_at	4P	1.198594e-03
207001_x_at	4P	7.61e-04	204995_at	4P	1.211929e-03
200053_at	4P	7.74e-04	204481_at	4P	1.221632e-03
239430_at	4P	7.78e-04	220755_s_at	4P	1.223399e-03
225399_at	4P	7.82e-04	212636_at	4P	1.225528e-03
65493_at	4P	8.01e-04	203701_s_at	4P	1.25791e-03
219952_s_at	4P	8.14e-04	208549_x_at	4P	1.258642e-03

225936_at	4P	1.267316e-03	213373_s_at	4P	1.714491e-03
203058_s_at	4P	1.270363e-03	206707_x_at	4P	1.723219e-03
201771_at	4P	1.278876e-03	220391_at	4P	1.726928e-03
203374_s_at	4P	1.300207e-03	214541_s_at	4P	1.732433e-03
243927_x_at	4P	1.302871e-03	225282_at	4P	1.747021e-03
205642_at	4P	1.31273e-03	222408_s_at	4P	1.761083e-03
219378_at	4P	1.318192e-03	218642_s__at	4P	1.77547e-03
203527_s_at	4P	1.320074e-03	202855_s__at	4P	1.776696e-03
225612_s_at	4P	1.320088e-03	203103_s_at	4P	1.785104e-03
223392_s_at	4P	1.325957e-03	230050_at	4P	1.796919e-03
1559050_at	4P	1.327458e-03	214285_at	4P	1.797789e-03
203405_at	4P	1.342543e-03	218735_s_at	4P	1.805661e-03
205149_s_at	4P	1.38004e-03	216351_x_at	4P	1.838716e-03
1552554_a_at	4P	1.392453e-03	203795_s_at	4P	1.849474e-03
207473_at	4P	1.401622e-03	218291_at	4P	1.851775e-03
229372_at	4P	1.403431e-03	1554108_at	4P	1.854142e-03
205756_s_at	4P	1.409196e-03	226026_at	4P	1.85755e-03
221775_x_at	4P	1.450905e-03	206045_s_at	4P	1.858677e-03
219298_at	4P	1.457743e-03	1552440_at	4P	1.871249e-03
209015_s_at	4P	1.460372e-03	201039_s_at	4P	1.874275e-03
238940_at	4P	1.47235e-03	219581_at	4P	1.876119e-03
222747_s_at	4P	1.472645e-03	209302~at	4P	1.889895e-03
202889_x_at	4P	1.476199e-03	218315_s_at	4P	1.892982e-03
208089_s_at	4P	1.489566e-03	223393_s_at	4P	1.89833e-03
222140_s_at	4P	1.500207e-03	214291_at	4P	1.914262e-03
221575_at	4P	1.502428e-03	1555736_a_at	4P	1.916028e-03
218773_s_at	4P	1.511154e-03	223470_at	4P	1.927291e-03
208083_s_at	4P	1.520675e-03	225061_at	4P	1.928226e-03
223044_at	4P	1.521514e-03	202209_at	4P	1.934882e-03
211305_x_at	4P	1.530001e-03	204194_at	4P	1.938974e-03
213340_s_at	4P	1.530155e-03	35776_at	4P	1.950397e-03
201413_at	4P	1.542964e-03	220874_at	4P	1.956726e-03
203737_s_at	4?	1.543482e-03	221191_at	4P	1.957711e-03
235359_at	4P	1.544076e-03	203390_s_at	4P	1.973684e-03
205403_at	4P	1.5518e-03	228499_at	4P	1.983739e-03
238429_at	4P	1.553128e-03	238081_at	4P	1.986533e-03
236767_at	4P	1.558096e-03	1567107_s_at	4P	1.989647e-03
211128_at	4P	1.561316e-03	211097_s_at	4P	1.996286e-03
215021_s_at	4P	1.572794e-03	212974_at	4P	2.015791e-03
230421_at	4P	1.573399e-03	220617_s_at	4P	2.039223e-03
219544_at	4P	1.573399e-03	200043_at	4P	2.047802e-03
218123_at	4P	1.573399e-03	208561_at	4P	2.061904e-03
204793_at	4P	1.573399e-03	219998_at	4P	2.069871e-03
222062_at	4P	1.573399e-03	1562329_at	4P	2.071949e-03
202335_s_at	4P	1.573399e-03	213670_x_at	4P	2.072658e-03
204905_s_at	4P	1.573399e-03	213836_s_at	4P	2.083087e-03
220590_at	4P	1.576784e-03	206942_s_at	4P	2.091166e-03
218575_at	4P	1.577577e-03	201044_x_at	4P	2.092034e-03
218292_s_at	4P	1.582736e-03	223742_at	4P	2.09753e-03
219133_at	4P	1.58453e-03	49679_s_at	4P	2.09808e-03
219513_s_at	4P	1.60866e-03	216937_s_at	4P	2.102724e-03
224196_x_at	4P	1.611466e-03	210092_at	4P	2.127146e-03
228923_at	4P	1.639475e-03	210826_x_at	4P	2.12927e-03
223907_s_at	4P	1.640775e-03	226024_at	4P	2.140138e-03
1552510_at	4P	1.651079e-03	227852_at	4P	2.144617e-03
204677_at	4P	1.656803e-03	204377_s_at	4P	2.151169e-03
211004_s_at	4P	1.657356e-03	203921__at	4P	2.172511e-03
225031_at	4P	1.666057e-03	225369_at	4P	2.175651e-03
211921_x_at	4P	1.668045e-03	226614_s_at	4P	2.183556e-03
1553768_a_at	4P	1.669094e-03	225092__at	4P	2.214552e-03
1556588_at	4P	1.674368e-03	228077_at	4P	2.214552e-03
205562_at	4P	1.689689e-03	228167_at	4P	2.214552e-03
212487_at	4P	1.70442e-03	230192_at	4P	2.214552e-03
208904_s_at	4P	1.704553e-03	218812_s_at	4P	2.214552e-03

212855_at	4P	2.214552e-03		218117_at	4P	2.73837e-03
203765_at	4P	2.214552e-03		200046_at	4P	2.749894e-03
204064_at	4P	2.214552e-03		1556744_a_at	4P	2.752018e-03
223296_at	4P	2.214552e-03		213666_at	4P	2.754797e-03
209711_at	4P	2.214552e-03		204412_s_at	4P	2.778038e-03
206688_s_at	4P	2.214552e-03		212078_s_at	4P	2.817819e-03
1555241_at	4P	2.214552e-03		225853_at	4P	2.83982e-03
223086_x_at	4P	2.215985e-03		229759_s_at	4P	2.852461e-03
204706_at	4P	2.226851e-03		205481_at	4P	2.861901e-03
225196_s_at	4P	2.228463e-03		218005_at	4P	2.865119e-03
205953_at	4P	2.229241e-03		209889_at	4P	2.884487e-03
240967_at	4P	2.229635e-03		1565795_at	4P	2.886395e-03
218213_s_at	4P	2.242764e-03		212355_at	4P	2.890077e-03
226489_at	4P	2.268656e-03		206336_at	4P	2.891885e-03
205096_at	4P	2.270843e-03		217491_x_at	4P	2.893314e-03
202866_at	4P	2.28204e-03		218332_at	4P	2.896227e-03
219540_at	4P	2.282919e-03		229264_at	4P	2.902178e-03
213842_x_at	4P	2.289459e-03		228355_s_at	4P	2.924001e-03
220349_s_at	4P	2.291051e-03		232612_s_at	4P	2.940086e-03
209301_at	4P	2.291051e-03		201468_s_at	4P	2.940086e-03
219962_at	4P	2.299751e-03		219024_at	4P	2.947594e-03
1552293_at	4P	2.319045e-03		223671_x_at	4P	2.948692e-03
201134_x_at	4P	2.320079e-03		200888_s_at	4P	2.95501e-03
207687_at	4P	2.326331e-03		222108_at	4P	2.972252e-03
218233_s_at	4P	2.332066e-03		214106_s_at	4P	2.987059e-03
203910_at	4P	2.332625e-03		213444_at	4P	2.989482e-03
218356_at	4P	2.333669e-03		223857_x_at	4P	2.994257e-03
204714_s_at	4P	2.340097e-03		200696_s_at	4P	2.995952e-03
230084_at	4P	2.35571e-03		212684_at	4P	2.996496e-03
212274_at	4P	2.361443e-03		209744_x_at	4P	3.008031e-03
243851_at	4P	2.369657e-03		215599_at	4P	3.020479e-03
218552_at	4P	2.369657e-03		231940_at	4P	3.022623e-03
226159_at	4P	2.369945e-03		215719_x_at	4P	3.030294e-03
213398_s_at	4P	2.389086e-03		223988_x_at	4P	3.033846e-03
216248_s_at	4P	2.395505e-03		207279_s_at	4P	3.033918e-03
224330_s_at	4P	2.4269e-03		202426_s_at	4P	3.039747e-03
221506_s_at	4P	2.437199e-03		218880_at	4P	3.043891e-03
219228_at	4P	2.441268e-03		36865_at	4P	3.046312e-03
221478_at	4P	2.442178e-03		201109_s_at	4P	3.05584e-03
1569909_at	4P	2.454757e-03		208776_at	4P	3.061629e-03
225790_at	4P	2.45686e-03		224331_s_at	4P	3.062187e-03
225888_at	4P	2.479369e-03		231756_at	4P	3.062187e-03
210279_at	4P	2.51924e-03		219146_at	4P	3.062187e-03
233250_x_at	4P	2.521912e-03		218581_at	4P	3.062187e-03
207205_at	4P	2.559011e-03		218555_at	4P	3.062187e-03
219066_at	4P	2.564104e-03		219130_at	4P	3.062187e-03
204140_at	4P	2.567697e-03		214084_x_at	4P	3.062187e-03
218590_at	4P	2.56866e-03		213483_at	4P	3.062187e-03
1558470_at	4P	2.574637e-03		218061_at	4P	3.062187e-03
223639_s_at	4P	2.575444e-03		218059_at	4P	3.062187e-03
221689_s_at	4P	2.576024e-03		204327_s_at	4P	3.062187e-03
241436_at	4P	2.579816e-03		222010_at	4P	3.062187e-03
200772_x_at	4P	2.584453e-03		223212_at	4P	3.062187e-03
221588_x_at	4P	2.584607e-03		221203_s_at	4P	3.062187e-03
202905_x_at	4P	2.619093e-03		222728_s_at	4P	3.062187e-03
208786_s_at	4P	2.628708e-03		212222_at	4P	3.062187e-03
229872_s_at	4P	2.650192e-03		206829_x_at	4P	3.062187e-03
206392_s_at	4P	2.652378e-03		207170_s_at	4P	3.062187e-03
202785_at	4P	2.673691e-03		1553088_a_at	4P	3.062187e-03
230763_at	4P	2.686628e-03		1552263_at	4P	3.062187e-03
207421_at	4P	2.694219e-03		203375_s_at	4P	3.074854e-03
1566289_at	4P	2.704004e-03		200957_s_at	4P	3.081601e-03
234864_s_at	4P	2.72241e-03		224820_at	4P	3.087339e-03
219410_at	4P	2.737479e-03		1559302_at	4P	3.091246e-03

218190_s_at	4P	3.09956e-03	220447_at	4P	3.643206e-03
40687_at	4P	3.101301e-03	212831_at	4P	3.64717e-03
212747_at	4P	3.11899e-03	209185_s_at	4P	3.653078e-03
211355_x_at	4P	3.129635e-03	202591_s_at	4P	3.669648e-03
227968_at	4P	3.130361e-03	204842_x_at	4P	3.686355e-03
219539_at	4P	3.130746e-03	203575_at	4P	3.686831e-03
225133_at	4P	3.14609e-03	223244_s_at	4P	3.69596e-03
212540_at	4P	3.152183e-03	203973_s_at	4P	3.696764e-03
220685_at	4P	3.168605e-03	205042_at	4P	3.697465e-03
222819_at	4P	3.191268e-03	217896_s_at	4P	3.70718e-03
231853_at	4P	3.217719e-03	204949_at	4P	3.724295e-03
212991_at	4P	3.219607e-03	201770_at	4P	3.729199e-03
224632_at	4P	3.222494e-03	1553134_s_at	4P	3.741001e-03
1557056_at	4P	3.225641e-03	206846_s_at	4P	3.757403e-03
204132_s_at	4P	3.228275e-03	201746_at	4P	3.759958e-03
227471_at	4P	3.229085e-03	223233_s_at	4P	3.761256e-03
222057_at	4P	3.236949e-03	225331_at	4P	3.781954e-03
210190_at	4P	3.267693e-03	222949_at	4P	3.78231e-03
220000_at	4P	3.271844e-03	210027_s_at	4P	3.787041e-03
217805_at	4P	3.286429e-03	212429_s_at	4P	3.791462e-03
227402_s_at	4P	3.288839e-03	201226_at	4P	3.798989e-03
235263_at	4P	3.305029e-03	209512_at	4P	3.813284e-03
223963_s_at	4P	3.31202e-03	217792_at	4P	3.816374e-03
212648_at	4P	3.327845e-03	224932_at	4P	3.835156e-03
209297_at	4P	3.33312e-03	221541_at	4P	3.844656e-03
230004_at	4P	3.334158e-03	220760_x_at	4P	3.85676e-03
202101_s_at	4P	3.33568e-03	223223_at	4P	3.870086e-03
233461_x_at	4P	3.335689e-03	205133_s_at	4P	3.884255e-03
202027_at	4P	3.33932e-03	205214_at	4P	3.907914e-03
211542_x_at	4P	3.345227e-03	220114_s_at	4P	3.916327e-03
214590_s_at	4P	3.35138e-03	225237_s_at;	4P	3.930588e-03
224657_at	4P	3.357876e-03	202077_at	4P	3.937588e-03
215336_at	4P	3.359689e-03	227475_at	4P	3.942521e-03
202061_s_at	4P	3.380376e-03	206341_at	4P	3.942736e-03
200809_x_at	4P	3.393303e-03	224563_at	4P	3.966137e-03
218076_s_at	4P	3.413248e-03	1553793_a_at	4P	3.96668e-03
217885_at	4P	3.425888e-03	222649_at	4P	3.983469e-03
234504_at	4P	3.434255e-03	213588_x_at	4P	3.986873e-03
205541_s_at	4P	3.436151e-03	226442_at	4P	3.989061e-03
201839_s_at	4P	3.436474e-03	1558796_a_at	4P	3.999714e-03
214784_x_at	4P	3.442941e-03	208182_x_at	4P	4.003438e-03
203966_s_at	4P	3.454002e-03	206030_at	4P	4.018799e-03
203179_at	4P	3.47244e-03	206372_at	4P	4.025154e-03
218104_at	4P	3.484976e-03	1552845_at	4P	4.047559e-03
1555728_a_at	4P	3.491418e-03	1552575_a_at	4P	4.052573e-03
220376_at	4P	3.502842e-03	203436_at	4P	4.062486e-03
227916_x_at	4P	3.517133e-03	200817_x_at	4P	4.070383e-03
234942_s_at	4P	3.532557e-03	217492_s_at	4P	4.077794e-03
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223276_at	4P	3.53665e-03	220890_s_at	4P	4.098663e-03
203169_at	4P	3.550946e-03	206522_at	4P	4.109188e-03
224942_at	4P	3.560521e-03	214136_at	4P	4.112344e-03
227148_at	4P	3.566447e-03	223113_at	4P	4.123946e-03
210740_s_at	4P	3.58453e-03	209850_s_at	4P	4.128373e-03
213687_s_at	4P	3.584923e-03	221951_at	4P	4.12978e-03
211725_s_at	4P	3.588406e-03	1553272_at	4P	4.158695e-03
202644_s_at	4P	3.589973e-03	230721_at	4P	4.165044e-03
230756_at	4P	3.590501e-03	227611_at	4P	4.165546e-03
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205384_at	4P	7.069631e-03
213506_at	4P	7.079267e-03
229063_s_at	4P	7.086439e-03
203599_s_at	4P	7.089034e-03
200834_s_at	4P	7.117368e-03
201723_s_at	4P	7.122702e-03
219476_at	4P	7.125082e-03
200763_s_at	4P	7.130244e-03
202456_s_at	4P	7.141047e-03
223569_at	4P	7.142454e-03
212047_s_at	4P	7.167143e-03
212675_s_at	4P	7.199457e-03
207826_s_at	4P	7.209094e-03
226470_at	4P	7.21978e-03
204127_at	4P	7.221342e-03
1559833_at	4P	7.231516e-03
224513_s_at	4P	7.236742e-03
205991_s_at	4P	7.248216e-03
205346_at	4P	7.248216e-03
207529_at	4P	7.250736e-03
225255_at	4P	7.25327e-03
230280_at	4P	7.261377e-03

218033_s_at	4P	7.281665e-03	1553363_at	4P	7.648955e-03
201532_at	4P	7.320226e-03	204774_at	4P	7.662341e-03
219176_at	4P	7.331163e-03	213460_x_at	4P	7.687122e-03
211721_s_at	4P	7.353999e-03	214822_at	4P	7.707838e-03
224736_at	4P	7.373644e-03	208517_x_at	4P	7.70955e-03
223711_s_at	4P	7.373644e-03	205482_x_at	4P	7.710772e-03
226041_at	4P	7.373644e-03	222409_at	4P	7.725475e-03
224217_s_at	4P	7.373644e-03	203998_s_at	4P	7.738078e-03
227810_at	4P	7.373644e-03	238053_at	4P	7.741008e-03
227796_at	4P	7.373644e-03	200029_at	4P	7.766145e-03
225562_at	4P	7.373644e-03	203904_x_at	4P	7.801834e-03
224916_jat	4P	7.373644e-03	229518_at	4P	7.806149e-03
225184_at	4P	7.373644e-03	221502_at	4P	7.83061e-03
239377_at	4P	7.373644e-03	220443_s_at	4P	7.837043e-03
227986_at	4P	7.373644e-03	200781_s_at	4P	7.840771e-03
218594_at	4P	7.373644e-03	211924_s_at	4P	7.852992e-03
219443_at	4P	7.373644e-03	200819_s_at	4P	7.863911e-03
219526_at	4P	7.373644e-03	220404_at	4P	7.881705e-03
213216_at	4P	7.373644e-03	225359_at	4P	7.897615e-03
212541_at	4P	7.373644e-03	201306_s_at	4P	7.907165e-03
217988_at	4P	7.373644e-03	204781_s_at	4P	7.94056e-03
203668_at	4P	7.373644e-03	205191_at	4P	7.941193e-03
222476_at	4P	7.373644e-03	223040_at	4P	7.944003e-03
223006_s_at	4P	7.373644e-03	202326_at	4P	7.980579e-03
202220_at	4P	7.373644e-03	217631_at	4P	7.988663e-03
202600_s_at	4P	7.373644e-03	211163_s_at	4P	8.002702e-03
202910_s_at	4P	7.373644e-03	40149_at	4P	8.01536e-03
202251_at	4P	7.373644e-03	218447_at	4P	8.018548e-03
207231_at	4P	7.373644e-03	211051_s_at	4P	8.020555e-03
205097_at	4P	7.373644e-03	204571_x_at	4P	8.025586e-03
205371_s_at	4P	7.373644e-03	200003_s_at	4P	8.038911e-03
207483_s_at	4P	7.373644e-03	205496_at	4P	8.06614e-03
219119_at	4P	7.376369e-03	206952_at	4P	8.072446e-03
36711_at	4P	7.381213e-03	201812_s_at	4P	8.091384e-03
201695_s_at	4P	7.383419e-03	1566991_at	4P	8.093912e-03
232287_at	4P	7.383557e-03	221602_s_at	4P	8.097514e-03
210370_s_at	4P	7.384418e-03	225260_s_at	4P	8.103293e-03
210904_s_at	4P	7.39243e-03	217529_at	4P	8.108429e-03
223637_s_at	4P	7.410574e-03	1557172_x_at	4P	8.116965e-03
205489_at	4P	7.417685e-03	214461_at	4P	8.12734e-03
1552287_s_at	4P	7.428106e-03	33304_at	4P	8.141175e-03
200909_s_at	4P	7.430079e-03	210999_s_at	4P	8.1486e-03
223433_at	4P	7.435555e-03	228332_s_at	4P	8.172131e-03
208141_s_at	4P	7.444554e-03	211534_x_at	4P	8.17817e-03
206583_at	4P	7.452869e-03	49077_at	4P	8.205507e-03
231405_at	4P	7.45326e-03	235076_at	4P	8.209135e-03
229974_at	4P	7.47168e-03	202488_s_at	4P	8.209687e-03
202464_s_at	4P	7.487016e-03	205598_at	4P	8.211772e-03
200875_s_at	4P	7.493837e-03	230587_at	4P	8.21701e-03
205532_s_at	4P	7.495183e-03	218074_at	4P	8.220834e-03
212809_at	4P	7.496523e-03	222657_s_at	4P	8.238347e-03
203435_s_at	4P	7.529556e-03	219968_at	4P	8.242525e-03
219768_at	4P	7.574087e-03	224959_at	4P	8.245988e-03
224435_at	4P	7.593718e-03	222223_s_at	4P	8.302767e-03
207753_at	4P	7.59475e-03	202787_s_at	4P	8.315621e-03
222218_s_at	4P	7.603157e-03	222905_s_at	4P	8.32002e-03
235472_at	4P	7.603484e-03	218588_s_at	4P	8.332589e-03
205957_at	4P	7.605619e-03	217748_at	4P	8.335896e-03
233338_at	4P	7.607793e-03	218471_s_at	4P	8.358337e-03
207913_at	4P	7.613092e-03	218699_at	4P	8.363388e-03
203152_at	4P	7.618989e-03	205600_x_at	4P	8.36773e-03
223018_at	4P	7.631645e-03	201119_s_at	4P	8.419653e-03
207177_at	4P	7.632251e-03	200703_at	4P	8.419663e-03
206114_at	4P	7.639507e-03	242911_at	4P	8.435621e-03

2T17'tt"~'s"af "4P""B'.'-i3'93-8-9e-03				204372	_s_at	4P	9.014332e-03
220969	_s_at	4P	8.442591e-03	221481	_x_at	4P	9.017832e-03
227233	_at	4P	8.443841e-03	221014	_s_at	4P	9.032119e-03
219292_	at	4P	8.453002e-03	205681	_at	4P	9.040702e-03
74694	_s_at	4P	8.456504e-03	200916	_at	4P	9.063015e-03
207601	_at	4P	8.457688e-03	213457	_at	4P	9.077279e-03
213798	_s_at	4P	8.469118e-03	200744	_s_at	4P	9.099021e-03
207657	_x_at	4P	8.469504e-03	215437	_x_at	4P	9.111035e-03
202963	_at	4P	8.479324e-03	214518	_at	4P	9.115701e-03
238982	_at	4P	8.506385e-03	205216	_s_at	4P	9.132905e-03
208527	_x_at	4P	8.51494e-03	224458	_at	4P	9.14197e-03
218338	_at	4P	8.526756e-03	1553802	_a_at	4P	9.145221e-03
224948	_at	4P	8.527858e-03	209864	_at	4P	9.172634e-03
217475	_s_at	4P	8.53825e-03	211676	_s_at	4P	9.195651e-03
214365	_at	4P	8.539135e-03	238346	_s_at	4P	9.204813e-03
226557	_at	4P	8.569065e-03	213092	_x_at	4P	9.205859e-03
217681	_at	4P	8.572009e-03	208660	_at	4P	9.20733e-03
221535	_at	4P	8.577372e-03	242456	_at	4P	9.215e-03
223084	_s_at	4P	8.580816e-03	219565	_at	4P	9.215e-03
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217299	_s_at	4P	8.592647e-03	203026	_at	4P	9.241628e-03
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201479	_at	4P	8.615676e-03	207721	_x_at	4P	9.328545e-03
207325	_x_at	4P	8.622023e-03	201622	_at	4P	9.33153e-03
222745	_s_at	4P	8.63988e-03	205353	_s_at	4P	9.342962e-03
206983	_at	4P	8.64054e-03	209315	_at	4P	9.368762e-03
218226	_s_at	4P	8.65139e-03	210094	_s_at	4P	9.376535e-03
223880	_x_at	4P	8.653511e-03	210463	_x_at	4P	9.379719e-03
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204766	_s_at	4P	8.673051e-03	1566109	_at	4P	9.384769e-03
22957 6	_s_at	4P	8.67608e-03	218032	_at	4P	9.41286e-03
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219067	_s_at	4P	8.69374e-03	207761	_s_at	4P	9.451028e-03
217926	_at	4P	8.71796e-03	217755	_at	4P	9.480162e-03
213045	_at	4P	8.719014e-03	224450	_s_at	4P	9.484365e-03
200973	_s_at	4P	8.728727e-03	204713	_s_at	4P	9.490731e-03
1568667	_s_at	4P	8.744653e-03	225489	_at	4P	9.493753e-03
227822	_at	4P	8.752635e-03	219879	_s_at	4P	9.512481e-03
204894	_s_at	4P	8.771513e-03	219007	_at	4P	9.519525e-03
203497	_at	4P	8.777733e-03	224669	_at	4P	9.540365e-03
201519	_at	4P	8.793668e-03	208158	_s_at	4P	9.557104e-03
218646	_at	4P	8.794438e-03	211574	_s_at	4P	9.573203e-03
203868	_s_at	4P	8.794805e-03	201166	_s_at	4P	9.588989e-03
202246	_s_at	4P	8.797981e-03	222739	_at	4P	9.602496e-03
202715	_at	4P	8.805064e-03	224308	_s_at	4P	9.614726e-03
227601	_at	4P	8.805661e-03	225178	_at	4P	9.614726e-03
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218531	_at	4P	8.829484e-03	224481	_s_at	4P	9.614726e-03
1564295	_at	4P	8.835587e-03	235177	_at	4P	9.614726e-03
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227678	_at	4P	8.867505e-03	218515	_at	4P	9.614726e-03
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211826	_s_at	4P	8.875511e-03	219279	_at	4P	9.614726e-03
217977	_at	4P	8.882674e-03	213527	_s_at	4P	9.614726e-03
33322	_i_at	4P	8.896067e-03	212928	_at	4P	9.614726e-03
228106	_at	4P	8.903806e-03	214179	_s_at	4P	9.614726e-03
225876	_at	4P	8.940093e-03	212591	_at	4P	9.614726e-03
208828	_at	4P	8.94131e-03	217499	_x_at	4P	9.614726e-03
203789	_s_at	4P	8.956617e-03	217940	_s_at	4P	9.614726e-03
211763	_s_at	4P	8.967476e-03	218098	_at	4P	9.614726e-03
219149	_x_at	4P	8.993054e-03	217964	_at	4P	9.614726e-03
227363	_s_at	4P	9.012122e-03	216202	_s_at	4P	9.614726e-03

221234_s_at	4P	9.614726e-03	226321_at	4P	0.01
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210137_s_at	4P	9.614726e-03	1555255_a_at	4P	0.01
210645_s_at	4P	9.614726e-03	225767_at	4P	0.01
203156_at	4P	9.614726e-03	214526_x_at	4P	0.01
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205812_s_at	4P	9.614726e-03	225875_s_at	4P	0.01
205436_s_at	4P	9.614726e-03	1552419_s_jat	4P	0.01
206437_at	4P	9.614726e-03	221987_s_at	4P	0.01
206976_s_at	4P	9.614726e-03	220123_at	4P	0.01
207667_s_at	4P	9.614726e-03	225074_at	4P	0.01
208800_at	4P	9.614726e-03	203871_at	4P	0.01
209049_s_at	4P	9.614726e-03	222955_s_at	4P	0.01
200812_at	4P	9.614726e-03	209475_at	4P	0.01
1554345_a_at	4P	9.614726e-03	203361_s_at	4P	0.01
220341_s_at	4P	9.616116e-03	201323_at	4P	0.01
218729^at	4P	9.625224e-03	205978_at	4P	0.01
224415_s_at	4P	9.640967e-03	225705_at	4P	0.01
201189_s_at	4P	9.640967e-03	203319_s_at	4P	0.01
214441_at	4P	9.664197e-03	207466_at	4P	0.01
218084_x_at	4P	9.671825e-03	224785_at	4P	0.01
241337_at	4P	9.673732e-03	213577_at	4P	0.01
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205644_s_at	4P	9.682812e-03	222794_x_at	4P	0.01
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201046_s_at	4P	9.783055e-03	208391_s_at	4P	0.01
230323_s_at	4P	9.786148e-03	230717_at	4P	0.01
220934_s_at	4P	9.80569e-03	223548_at	4P	0.01
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221658_s_at	4P	9.8334e-03	209081_s_at	4P	0.01
218738_s_at	4P	9.841341e-03	210750_s_at	4P	0.01
220240_s_at	4P	9.858417e-03	213773_x_at	4P	0.01
1553155_x_at	4P	9.863871e-03	242158_at	4P	0.01
222992_s_at	4P	9.869047e-03	206370_at	4P	0.01
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207307_at	4P	9.897425e-03	217807_s_at	4P	0.01
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200628_s_at	4P	0.01	224655_at	4P	0.01
210399_x_at	4P	0.01	203508_at	4P	0.01
203182_s_at	4P	0.01	1555470_a_at	4P	0.01
1552930_at	4P	0.01	208302_at	4P	0.01
205154_at	4P	0.01	224735_at	4P	0.01
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211707_s_at	4 P	0.01		205811_at	4 P	0.01
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204 643_s_at	4 P	0.01		203117_s_at	4 P	0.01
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206395_at	4 P	0.01		209882_at	4 P	0.01
226301_at	4 P	0.01		244704_at	4 P	0.01
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211623 _s_at	4P	0.01		219497 _s_at	4P	0.01
233640 _x_at	4P	0.01		1552737 _s_at	4P	0.01
202906 _s_at	4P	0.01		244011 _at	4P	0.01
201471 _s_at	4P	0.01		217837 _s_at	4P	0.01
205090 _s_at	4P	0.01		204450 _x_at	4P	0.01
213134 _x_at	4P	0.01		222869 _s_at	4P	0.01
228224 _at	4P	0.01		225852 _at	4P	0.01
214482 _at	4P	0.01		228358 _at	4P	0.01
221805 _at	4P	0.01		223240 _at	4P	0.01
200826 _at	4P	0.01		211396 _at	4P	0.01
210097 _s_at	4P	0.01		215054 _at	4P	0.01
229723 _at	4P	0.01		213302 _at	4P	0.01
214507 _s_at	4P	0.01		218715 _at	4P	0.01
219997 _s_at	4P	0.01		203885 _at	4P	0.01
214937 _x_at	4P	0.01		221516 _s_at	4P	0.01
214508 _x_at	4P	0.01		226165 _at	4P	0.01
204882 _at	4P	0.01		201164 _s_at	4P	0.01

232188_at	VB	0.01	211521_s_at	4P	0.01
235509_at	4P	0.01	223294_at	4P	0.01
203829_at	4P	0.01	218890_x_at	4P	0.01
241937_s_at	4P	0.01	210423_s_at	4P	0.01
201730_s_at	4P	0.01	213312_at	4P	0.01
212500_at	4P	0.01	1554322_a_at	4P	0.01
203545_at	4P	0.01	226361_at	4P	0.01
224439_x_at	4P	0.01	202907_s_at	4P	0.01
212933_x_at	4P	0.01	219862_s_at	4P	0.01
235303_at	4P	0.01	214198_s_at	4P	0.01
220176_at	4P	0.01	203672_x_at	4P	0.01
211139_s_at	4P	0.01	219514_at	4P	0.01
202728_s_at	4P	0.01	218763_at	4P	0.01
203033_x_at	4P	0.01	1553407_at	4P	0.01
205179_s_at	4P	0.01	237806_s_at	4P	0.01
219703_at	4P	0.01	211538_s_at	4P	0.01
215117_at	4P	0.01	210389_x_at	4P	0.01
221451_s_at	4P	0.01	209067_s_at	4P	0.01
209989_at	4P	0.01	1562637_at	4P	0.01
221453_at	4P	0.01	201412_at	4P	0.01
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204252_at	4P	0.01	232424_at	4P	0.01
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227217_at	4P	0.01	236965_at	4P	0.01
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223831_x_at	4P	0.03		225102_at	4P	0.04

926

55662_at	4P	0.04	243477_at	4P	0.04
201966_at	4P	0.04	222131_x_at	4P	0.04
219762_s_at	4P	0.04	214732_at	4P	0.04
219333_s_at	4P	0.04	209379_s_at	4P	0.04
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202187_s_at	4P	0.04	238638_at	4P	0.04
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209211_at	4P	0.04	208667_s_at	4P	0.04
226319_s_at	4P	0.04	222812_s__at	4P	0.04
213492_at	4P	0.04	215667_x_at	4P	0.04
210341_at	4P	0.04	230887_at	4P	0.04
208827_at	4P	0.04	214012_at	4P	0.04
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220774_at	4P	0.04	203460_s_at	4P	0.04
224093_at	4P	0.04	231734_at	4P	0.04
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204602_at	4P	0.04	218621_at	4P	0.04
233408_at	4P	0.04	217809_at	4P	0.04
227063_at	4P	0.04	218094_s_at	4P	0.04
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227047_x_at	4P	0.04	218811_at	4P	0.04
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222768_s_at	4R	6.204124e-03
230566_at	4R	6.215714e-03
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218588_s_at	4R	6.215714e-03
212550_at	4R	6.215714e-03
217216_x_at	4R	6.215714e-03
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212686_at	4R	6.219669e-03
204190_at	4R	6.2314e-03
1553645_at	4R	6.232125e-03
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1558412_at	4R	6.250458e-03
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201492_s_at	4R	6.292787e-03
223413_s_at	4R	6.309734e-03
213084_x_at	4R	6.312072e-03
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221575_at	4R	6.330076e-03
219613_s_at	4R	6.353338e-03
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219486_at	4R	6.380111e-03
221030_s_at	4R	6.395019e-03
225969_at	4R	6.396631e-03
218631_at	4R	6.403031e-03
201181_at	4R	6.404226e-03
207389_at	4R	6.407492e-03
217739_s_at	4R	6.421782e-03
1555167_s_at	4R	6.424255e-03
1558549_s_at	4R	6.466751e-03
218680_x_at	4R	6.482812e-03
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213607_x_at	4R	6.530206e-03
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223212_at	4R	6.553897e-03
221676_s_at	4R	6.58496e-03
220078_at	4R	6.599114e-03
218492_s_at	4R	6.600177e-03
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226784_at	4R	6.617708e-03
218404_at	4R	6.630326e-03
218366_x_at	4R	6.656176e-03
203405_at	4R	6.657572e-03
203576_at	4R	6.720363e-03
222403_at	4R	6.735932e-03
227029_at	4R	6.748551e-03
206632_s_at	4R	6.777252e-03
235896_s_at	4R	6.778859e-03
205015_s_at	4R	6.809682e-03
201359_at	4R	6.85541e-03
206004_at	4R	6.879814e-03
200852_x_at	4R	6.891839e-03
1555243_x_at	4R	6.912454e-03
205963_s_at	4R	6.921137e-03
222140_s_at	4R	6.946492e-03
204559_s_at	4R	6.966896e-03
223650_s_at	4R	6.974647e-03

209308_s_at	4R	6.9T9I 22e-03	225359_at	4R	7.897615e-03
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222394_at	4R	7.010336e-03	221164_x_at	4R	7.954436e-03
224380_s_at	4R	7.056585e-03	202326_at	4R	7.980579e-03
205384_at	4R	7.069631e-03	210254_at	4R	7.981397e-03
229063_s_at	4R	7.086439e-03	211163_s_at	4R	8.002702e-03
200834_s_at	4R	7.117368e~03	218447_at	4R	8.018548e-03
201723_s_at	4R	7.122702e-03	222524_s_at	4R	8.020555e-03
219476_at	4R	7.125082e-03	204571_x_at	4R	8.025586e-03
223569_at	4R	7.142454e-03	202513_s_at	4R	8.029662e-03
212047_s_at	4R	7.167143e-03	205496_at	4R	8.06614e-03
207826_s_at	4R	7.209094e-03	206952_at	4R	8.072446e-03
203053_at	4R	7.210742e-03	1566991_at	4R	8.093912e-03
1559833_at	4R	7.231516e-03	217529_at	4R	8.108429e-03
224513_s_at	4R	7.236742e-03	1557172_x_at	4R	8.116965e-03
242984_at	4R	7.248216e-03	210999_s_at	4R	8.1486e-03
1554741_s_at	4R	7.248216e-O3	228332_s_at	4R	8.172131e-03
207529_at	4R	7.250736e-03	211534_x_at	4R	8.17817e-03
227155_at	4R	7.252767e-03	235076_at	4R	8.209135e-03
225255_at	4R	7.25327e-03	205598_at	4R	8.211772e-03
230280_at	4R	7.261377e-03	230587_at	4R	8.21701e-03
225061_at	4R	7.278615e-03	218074_at	4R	8.220834e-03
218033_s_at	4R	7.281665e-03	205119_s_at	4R	8.234431e-03
213820_s_at	4R	7.298176e-03	222657_s_at	4R	8.238347e-03
201532_at	4R	7.320226e-03	207436_x_at	4R	8.248298e-03
219176_at	4R	7.331163e-03	215181_at	4R	8.257802e-03
209426_s_at	4R	7.349213e-03	202787_s_at	4R	8.315621e-03
218882_s_at	4R	7.360597e-03	217748_at	4R	8.335896e-03
219119_at	4R	7.376369e-03	218699_at	4R	8.363388e-03
210904_s_at	4R	7.39243e-03	214198_s_at	4R	8.36773e-03
231860_at	4R	7.417291e-03	213669_at	4R	8.36773e-03
205489_at	4R	7.417685e-03	215093_at	4R	8.36773e-03
202536_at	4R	7.428387e-03	215616_s_at	4R	8.36773e-03
204387_x_at	4R	7.44723e-03	211919_s_at	4R	8.36773e-03
229974_at	4R	7.47168e-03	205844_at	4R	8.36773e-03
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202464_s_at	4R	7.487016e-03	201795_at	4R	8.36773e-03
205532_s_at	4R	7.495183e-03	227844_at	4R	8.377317e-03
203435_s_at	4R	7.529556e-03	201119_s_at	4R	8.419653e-03
219768_at	4R	7.574087e-03	200703_at	4R	8.419663e-03
207753_at	4R	7.59475e-03	204644_at	4R	8.43002e-03
222218_s_at	4R	7.603157e-03	238045_at	4R	8.433877e-03
235472_at	4R	7.603484e-03	242911_at	4R	8.435621e-03
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203152_at	4R	7.618989e-03	220969_s_at	4R	8.442591e-03
207177_at	4R	7.632251e-03	227233_at	4R	8.443841e-03
206114_at	4R	7.639507e-03	229881_at	4R	8.455885e-03
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205482_x_at	4R	7.710772e-03	213798_s_at	4R	8.469118e-03
213063_at	4R	7.724997e-03	202963_at	4R	8.479324e-03
222409_at	4R	7.725475e-03	238982_at	4R	8.506385e-03
31807_at	4R	7.73627e-03	224948_at	4R	8.527858e-03
203998_s_at	4R	7.738078e-03	204391_x_at	4R	8.531384e-03
226466_s_at	4R	7.743637e-03	217475_s_at	4R	8.53825e-03
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229518_at	4R	7.806149e-03	223195_s_at	4R	8.558929e-03
219269_at	4R	7.812263e-03	226557_at	4R	8.569065e-03
219947_at	4R	7.82023e-03	217681_at	4R	8.572009e-03
211924_s_at	4R	7.852992e-03	221535_at	4R	8.577372e-03
200819_s_at	4R	7.863911e-03	206866_at	4R	8.578055e-03
220404_at	4R	7.881705e-03	223084_s_at	4R	8.580816e-03

200725_x_at	4R	8.591891e-03	201166_s_at	4R	9.588989e-03
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231940_at	4R	8.60406e-03	218440_at	4R	9.617524e-03
207325_x_at	4R	8.622023e-03	213940_s_at	4R	9.640557e-03
222745_s_at	4R	8.63988e-03	225317_at	4R	9.640967e-03
218226_s_at	4R	8.65139e-03	211051_s_at	4R	9.644487e-03
220337_at	4R	8.669278e-03	214441_at	4R	9.664197e-03
201421_s_at	4R	8.673036e-03	218084_x_at	4R	9.671825e-03
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208548_at	4R	8.6851e-03	213081_at	4R	9.679535e-03
215649_s_at	4R	8.711336e-03	205644_s_at	4R	9.682812e-03
217926_at	4R	8.71796e-03	202101_s_at	4R	9.694498e-03
213045_at	4R	8.719014e-03	233483_at	4R	9.707584e-03
210613_s_at	4R	8.722378e-03	217818_s_at	4R	9.726522e-03
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201519_at	4R	8.793668e-03	207811_at	4R	9.761993e-03
203868_s_at	4R	8.794805e-03	1554510_s_at	4R	9.773024e-03
229967_at	4R	8.801435e-03	230323_s_at	4R	9.786148e-03
227601_at	4R	8.805661e-03	218196_at	4R	9.79796e-03
218531_at	4R	8.829484e-03	214398_s_at	4R	9.8334e-03
204327_s_at	4R	8.861446e-03	218738_s_at	4R	9.841341e-03
227678_at	4R	8.867505e-03	220240_s_at	4R	9.858417e-03
217977_at	4R	8.882674e-03	1553155_x_at	4R	9.863871e-03
212925_at	4R	8.896087e-03	222992_s_at	4R	9.869047e-03
211763_s_at	4R	8.967476e-03	206342_x_at	4R	9.905937e-03
205642_at	4R	8.98855e-03	217016_x_at	4R	9.90774e-03
219149_x_at	4R	8.993054e-03	206103_at	4R	9.916591e-03
227363_s_at	4R	9.012122e-03	227442__at	4R	9.917499e-03
230363_s_at	4R	9.014103e-03	217189_s_at	4R	9.926271e-03
204372_s_at	4R	9.014332e-03	202418_at	4R	9.932571e-03
221481_x_at	4R	9.017832e-03	214030_at	4R	9.942769e-03
205681_at	4R	9.040702e-03	210811_s_at	4R	9.996898e-03
222721_at	4R	9.04515e-03	200628_s_at	4R	0.01
213457_at	4R	9.077279e-03	207408_at	4R	0.01
200744_s_at	4R	9.099021e-03	1552930_at	4R	0.01
207140_at	4R	9.102394e-03	205154_at	4R	0.01
1553793_a_at	4R	9.104546e-03	203344_s_at	4R	0.01
227791_at	4R	9.113161e-03	210117_at	4R	0.01
214518_at	4R	9.115701e-03	226092_at	4R	0.01
224458_at	4R	9.14197e-03	200039_s_at	4R	0.01
1553802_a_at	4R	9.145221e-03	1554624_a_at	4R	0.01
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223276_at	4R	9.187149e-03	210240_s_at	4R	0.01
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238346_s_at	4R	9.204813e-03	1552419_s_at	4R	0.01
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212839_s_at	4R	9.210017e-03	222955_s_at	4R	0.01
213630_at	4R	9.229797e-03	229426_at	4R	0.01
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229241_at	4R	9.46858e-03	215136_s_at	4R	0.01
217755_at	4R	9.480162e-03	201323_at	4R	0.01
224450_s_at	4R	9.484365e-03	205978_at	4R	0.01
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204713_s_at	4R	9.490731e-03	213577_at	4R	0.01
219879_s_at	4R	9.512481e-03	1568924_a_at	4R	0.01
224669_at	4R	9.540365e-03	222989_s_at	4R	0.01
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210272_at	4R	0.01	229294_at	4R	0.01
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1554342_s_at	4R	0.01	236262_at	4R	0.01
230717_at	4R	0.01	202034_x_at	4R	0.01
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242158_at	4R	0.01	230983_at	4R	0.01
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206370_at	4R	0.01	221763_at	4R	0.01
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238635_at	4R	0.01	204441_s_at	4R	0.01
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213412_at	4R	0.01	210160_at	4R	0.01
228217_s_at	4R	0.01	211651_s_at	4R	0.01
220566_at	4R	0.01	203556_at	4R	0.01
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238063_at	4R	0.01	208695_s_at	4R	0.01
204884_s_at	4R	0.01	225183_at	4R	0.01
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223128_at	4R	0.01	205286_at	4R	0.01
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223214_s_at	4R	0.01	205588_s_at	4R	0.01

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218289_s_at	4R	0.01
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1552788_a_at	4R	0.04
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AFFX-HUMGAPDH/			205901_at	4R	0.04
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204408_at	4R	0.04	219160_s_at	4R	0.04

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209025_s_at	4R	0.04		206495_s_at	4T	4.54e-05
210617_at	4R	0.04		224550_s_at	4T	6.06e-05
208452_x_at	4R	0.04		213836_s_at	4T	7.41e-05
229390_at	4R	0.04		214706_at	4T	7.41e-05
232891_at	4R	0.04		212213_x_at	4T	7.41e-05
220826_at	4R	0.04		206841_at	4T	8.16e-05
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200701_at	4R	0.04		204376_at	4T	1.05e-04
231778_at	4R	0.04		220418_at	4T	1.07e-04
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234710_s_at	4R	0.04		225876_at	4T	1.25e-04
38158_at	4R	0.04		212079_s_at	4T	1.25e-04
230322_at	4R	0.04		206049_at	4T	1.27e-04
238066_at	4R	0.04		214060_at	4T	1.42e-04
228274_at	4R	0.04		203910_at	4T	1.42e-04
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214166_at	4R	0.04		212078_s_at	4T	2.05e-04
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221951_at	4R	0.04		204261_s_at	4T	2.27e-04
243426_at	4R	0.04		218559_s_at	4T	2.38e-04
201101_s_at	4R	0.04		220426_at	4T	2.4e-04
203535_at	4R	0.04		204379_s_at	4T	2.43e-04
238648_at	4R	0.04		203471_s_at	4T	2.46e-04
221658_s_at	4R	0.04		203144_s_at	4T	2.49e-04
224187_x_at	4R	0.04		235020_at	4T	2.5e-04
200768_s_at	4R	0.04		220963_s_at	4T	2.65e-04
204398_s_at	4R	0.04		220033_at	4T	2.68e-04
1569073_x_at	4R	0.04		218794_s_at	4T	2.71e-04
207206_s_at	4R	0.04		219859_at	4T	2.75e-04
213203_at	4R	0.04		222480_at	4T	2.81e-04
205414_s_at	4R	0.04		214427_at	4T	3.01e-04
208789_at	4R	0.04		218601_at	4T	3.02e-04
225083_at	4R	0.04		206039_at	4T	3.16e-04
223992_x_at	4R	0.04		238982_at	4T	3.24e-04
34206_at	4R	0.04		228512_at	4T	3.24e-04
203046_s_at	4R	0.04		212237_at	4T	3.24e-04
200706_s_at	4R	0.04		218199_s_at	4T	3.38e-04
219305_x_at	4R	0.04		204839_at	4T	3.44e-04
214632_at	4R	0.04		1553020_at	4T	3.46e-04
235037_at	4R	0.04		203389_at	4T	3.59e-04
204439_at	4R	0.04		203277_at	4T	3.67e-04
218754_at	4T	2.51e-06		206739_at	4T	3.73e-04
214696_at	4T	1.15e-05		209841_s_at	4T	4.03e-04
202581_at	4T	1.17e-05		206177_s_at	4T	4.09e-04
214688_at	4T	1.18e-05		208779_x_at	4T	4.13e-04
222311_s_at	4T	2.28e-05		217094_s_at	4T	4.18e-04
202905_x_at	4T	2.28e-05		207665_at	4T	4.43e-04
1570373_at	4T	2.28e-05		220784_s_at	4T	4.5e-04

951

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217734_s_at	4T	8.91e-04
210724_at	4T	8.98e-04
218957_s_at	4T	9.04e-04
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200937_s_at	4T	3.062187e-03
200965_s_at	4T	3.062187e-03
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202027_at	4T	3.33932e-03
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224657_at	4T	3.357876e-03
215336_at	4T	3.359689e-03
218581_at	4T	3.366951e-03
55872_at	4T	3.372424e-03
202061_s_at	4T	3.380376e-03
200809_x_at	4T	3.393303e-03

218076 _s_at	4T	3;'413248e-03	1558796 _a_at	4T	3.999714e-03
217885 _at	4T	3.425888e-03	208182 _x_at	4T	4.003438e-03
234504~ _at	4T	3.434255e-03	206030 _at	4T	4.018799e-03
205541 _s_at	4T	3.436151e-03	207966 _s_at	4T	4.020301e-03
201839 _s_at	4T	3.436474e-03	206583 _at	4T	4.020314e-03
214784 _x_at	4T	3.442941e-03	206372 _at	4T	4.025154e-03
203966 _s_at	4T	3.454002e-03	1552845 _at	4T	4.047559e-03
218059 _at	4T	3.460103e-03	200817 _x_at	4T	4.070383e-O3
203179 _at	4T	3.47244e-03	217492 _s_at	4T	4.077794e-03
209187 _at	4T	3.48034e-03	202726 _at	4T	4.086201e-03
203904 _x_at	4T	3.48286e-03	206522 _at	4T	4.109188e-03
233970 [s_at	4T	3.498488e-03	214136 _at	4T	4.112344e-03
220376 _at	4T	3.502842e-03	209850 _s_at	4T	4.128373e-03
227916 _x_at	4T	3.517133e-03	224046 _s_at	4T	4.165546e-03
234942 _s_at	4T	3.532557e-03	40149 _at	4T	4.165546e-03
206206 _at	4T	3.536349e-03	212790 _x_at	4T	4.165546e-03
223276 _at	4T	3.53665e-03	212391 _x_at	4T	4.165546e-03
203169 _at	4T	3.550946e-03	204327 _s_at	4T	4.165546e-03
224942 _at	4T	3.560521e-03	203871 _at	4T	4.165546e-03
227148 _at	4T	3.566447e-03	223227 _at	4T	4.165546e-03
210740 [s_at	4T	3.58453e-03	210858 _x_at	4T	4.165546e-03
213687 _s_at	4T	3.584923e-03	202968 _s_at	4T	4.165546e-03
211725 _s_at	4T	3.588406e-03	202442 _at	4T	4.165546e-03
208117 _s_at	4T	3.597526e-03	202789 _at	4T	4.165546e-03
203045 _at	4T	3.607257e-03	209106 _at	4T	4.165546e-03
212714 _at	4T	3.6077e-03	200932 _s_at	4T	4.165546e-03
225755 _at	4T	3.642731e-03	201094 _at	4T	4.165546e-03
220447 _at	4T	3.643206e-03	202567 _at	4T	4.165784e-03
212831 _at	4T	3.64717e-03	215260 _s_at	4T	4.177035e-03
209185 _s_at	4T	3.653078e-03	202472 _at	4T	4.185546e-03
202591 [s_at	4T	3.669648e-03	220482 _s_at	4T	4.188009e-03
223244 _s_at	4T	3.69596e-03	207814 _at	4T	4.208266e-03
203973 _s_at	4T	3.696764e~03	202851 _at	4T	4.216767e-03
217896 _s_at	4T	3.70718e-03	1552733 _at	4T	4.220514e-03
221724 _s_at	4T	3.714854e-03	239081 _at	4T	4.222881e-03
204949 _at	4T	3.724295e-03	224634 _at	4T	4.230439e~03
208791 _at	4T	3.724459e-03	208960 _s_at	4T	4.23356e-03
201770 _at	4T	3.729199e-03	208785 _s_at	4T	4.240003e-03
219128 _at	4T	3.730378e-03	240359 _at	4T	4.253072e-03
205121 _at	4T	3.74067e-03	1559065 _a_at	4T	4.254066e-03
206846 _s_at	4T	3.757403e-03	233461 _x_at	4T	4.255916e-03
224803 _s_at	4T	3.75842e-03	207618 _s_at	4T	4.258459e-03
201746 _at	4T	3.759958e-03	35685 _at	4T	4.263645e-03
223233 [s_at	4T	3.761256e-03	204493 _at	4T	4.263679e-03
222949 _at	4T	3.78231e-03	200919 _at	4T	4.263749e-03
210027 _s_at	4T	3.787041e-03	206875 _s_at	4T	4.266951e-03
212429 _s_at	4T	3.791462e-03	228064 _at	4T	4.268727e-03
201226 _at	4T	3.798989e-03	219590 _x_at	4T	4.272831e-03
209512 _at	4T	3.813284e-03	204568 _at	4T	4.280643e-03
237792 _at	4T	3.816374e-03	218061 _at	4T	4.28298e-03
224932 _at	4T	3.835156e-03	214498 _at	4T	4.287361e-03
221541 [at	4T	3.844656e-03	226875 _at	4T	4.291222e-03
220760 _x_at	4T	3.85676e-03	222934 _s_at	4T	4.300448e-03
223223 [at	4T	3.870086e-03	205227 _at	4T	4.30749e-03
205133 _s_at	4T	3.884255e-03	202641 _at	4T	4.307733e-03
205214 _at	4T	3.907914e-03	209331 _s_at	4T	4.309431e-03
202077 _at	4T	3.937588e-03	218880 _at	4T	4.312893e-03
227475 _at	4T	3.942521e-03	220609 _at	4T	4.315244e-03
206341 _at	4T	3.942736e-03	223789 _s_at	4T	4.322517e-03
224563 [at	4T	3.966137e-03	227844 _at	4T	4.331111e-03
226611 _s_at	4T	3.96668e-03	202806 _at	4T	4.336179e-03
222649 [at	4T	3.983469e-03	214108 _at	4T	4.33619e-03
213588 _x_at	4T	3.986873e-03	214438 _at	4T	4.341023e-03
226442 _at	4T	3.989061e-03	201535 _at	4T	4.345488e-03

215230_x_at	4T	4.346962e-03	1554455_at	4T	4.947134e-03
209696_at	4T	4.355679e-03	236649_at	4T	4.955435e-03
219492_at	4T	4.361002e-03	201580_s_at	4T	4.956281e-03
201700_at	4T	4.411491e-03	224879_at	4T	4.962595e-03
202371_at	4T	4.418469e-03	1558327_at	4T	4.980841e-03
1552263_at	4T	4.421661e-03	224215_s_at	4T	4.992326e-03
205173_x_at	4T	4.42403e-03	201468_s_at	4T	4.998595e-03
36711_at	4T	4.427411e-03	209772_s_at	4T	5.007207e-03
230475_at	4T	4.431885e-03	1552291_at	4T	5.016507e-03
1553103_at	4T	4.436775e-03	203014_x_at	4T	5.018279e-03
239651_at	4T	4.4447e-03	210772_at	4T	5.063382e-03
219234_x_at	4T	4.444865e-03	221803_s_at	4T	5.072423e-03
205865_at	4T	4.44535e-03	207877_s_at	4T	5.072796e-03
217884_at	4T	4.482103e-03	232302_at	4T	5.074728e-03
228264_at	4T	4.489448e-03	226267_at	4T	5.082878e-03
203029_s_at	4T	4.495411e-03	210231_x_at	4T	5.085785e-03
210775_x_at	4T	4.498414e-03	215389_s_at	4T	5.110902e-03
213835_x_at	4T	4.498653e-03	218708_at	4T	5.11662e-03
201342_at	4T	4.524666e-03	227208_at	4T	5.116877e-03
234617_at	4T	4.533382e-03	210250_x_at	4T	5.118266e-03
244193_at	4T	4.540706e-03	225589_at	4T	5.124475e-03
235728_at	4T	4.554764e-03	210776_x_at	4T	5.127286e-03
225173_at	4T	4.558151e-03	217196_s_at	4T	5.144156e-03
211990_at	4T	4.561687e-03	202857_at	4T	5.161095e-03
212355_at	4T	4.563473e-03	202621_at	4T	5.175548e-03
226739_at	4T	4.581755e-03	220890_s_at	4T	5.19988e-03
206150_at	4T	4.583592e-03	201049_s_at	4T	5.205671e-03
218656_s_at	4T	4.614485e-03	227402_s_at	4T	5.210702e-03
221057_at	4T	4.616387e-03	222728_s_at	4T	5.21592e-03
219242_at	4T	4.624515e-03	1553861_at	4T	5.222568e-03
243290_at	4T	4.639016e-03	219751_at	4T	5.227281e-03
221484_at	4T	4.653267e-03	224496_s_at	4T	5.238986e-03
230422_at	4T	4.655478e-03	220273_at	4T	5.243243e-03
204053_x_at	4T	4.674968e-03	218077_s_at	4T	5.24545e-03
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214091_s_at	4T	4.70051e-03	202047_s_at	4T	5.262023e-03
214455_at	4T	4.725207e-03	240027_at	4T	5.263555e-03
210380_s_at	4T	4.73049e-03	209118_s_at	4T	5.265968e-03
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227143_s_at	4T	4.738434e-03	228080_at	4T	5.300226e-03
212875_s_at	4T	4.747415e-03	201013_s_at	4T	5.314298e-03
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203569_s_at	4T	4.775663e-03	222130_s_at	4T	5.339681e-03
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208677_s_at	4T	4.796711e-03	200648_s_at	4T	5.354544e-03
214397_at	4T	4.798028e-03	1553328_a_at	4T	5.359563e-03
202926_at	4T	4.82396e-03	208092_s_at	4T	5.384326e-03
203832_at	4T	4.827371e-03	1569490_at	4T	5.399113e-03
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209184_s_at	4T	4.835338e-03	226956_at	4T	5.409694e-03
221700_s_at	4T	4.846042e-03	240082_s_at	4T	5.426981e-03
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204087_s_at	4T	4.876396e-03	209100_at	4T	5.482273e-03
235139_at	4T	4.883412e-03	218319_at	4T	5.486629e-03
1553893_at	4T	4.900971e-03	216034_at	4T	5.489956e-03
228077_at	4T	4.906811e-03	212139_at	4T	5.492646e-03
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225505_s_at	4T	4.928337e-03	224347_x_at	4T	5.506369e-03
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210152_at	4T	5.581269e-03
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229491_at	4T	5.663354e-03
213168_at	4T	5.663681e-03
208442_s_at	4T	5.666341e-03
223528_s_at	4T	5.677638e-03
37152_at	4T	5.697492e-03
215773_x_at	4T	5.698293e-03
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204860_s_at	4T	5.715046e-03
202833_s_at	4T	5.718934e-03
227850_x_at	4T	5.729189e-03
228009_x_at	4T	5.744989e-03
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203310_at	4T	5.779868e-03
239462_at	4T	5.79199e-03
224137_at	4T	5.799284e-03
232986_at	4T	5.801876e-03
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211298_s_at	4T	5.835257e-03
231991_at	4T	5.84114e-03
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201492_s_at	4T	6.292787e-03
223413_s_at	4T	6.309734e-03
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207389_at	4T	6.407492e-03
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217739_s_at	4T	6.421782e-03
220704_at	4T	6.422833e-03
1555167_s_at	4T	6.424255e-03
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239382_at	4T	6.464706e-03
210397_at	4T	6.512993e-03
213607_x_at	4T	6.530206e-03
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220078_at	4T	6.599114e-03
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225165_at	4T	6.651581e-03

218366_x_at	4T	6.656176e-03	218882_s_at	4T	7.360597e-03
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212603_at	4T	6.701294e-03	57715_at	4T	7.373644e-03
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222403_at	4T	6.735932e-03	214321_at	4T	7.373644e-03
225659_at	4T	6.747741e-03	213969_x_at	4T	7.373644e-03
227029_at	4T	6.748551e-03	217764_s_at	4T	7.373644e-03
226018_at	4T	6.753555e-03	204254_s_at	4T	7.373644e-03
206632_s_at	4T	6.777252e-03	203789_s_at	4T	7.373644e-03
235896_s_at	4T	6.778859e-03	223454_at	4T	7.373644e-03
205015_s_at	4T	6.809682e-03	202387_at	4T	7.373644e-03
201411_s_at	4T	6.813419e-03	206440_at	4T	7.373644e-03
213752_at	4T	6.833658e-03	206181_at	4T	7.373644e-03
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231530_s_at	4T	6.855756e-03	208826_x_at	4T	7.373644e-03
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204290_s_at	4T	6.86676e-03	208101_s_at	4T	7.373644e-03
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1554800_at	4T	6.905639e-03	200716_x_at	4T	7.373644e-03
204021_s_at	4T	6.907366e-03	219119_at	4T	7.376369e-03
202112_at	4T	6.915469e-03	232287_at	4T	7.383557e-03
205963_s_at	4T	6.921137e-03	210370_s_at	4T	7.384418e-03
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223535_at	4T	6.940939e-03	205489_at	4T	7.417685e-03
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213506_at	4T	7.079267e-03	212809_at	4T	7.496523e-03
218575_at	4T	7.08278e-03	203435_s_at	4T	7.529556e-03
229063_s_at	4T	7.086439e-03	203860_at	4T	7.530202e-03
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201723_s_at	4T	7.122702e-03	219768_at	4T	7.574087e-03
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218648_at	4T	0.01
208594_x_at	4T	0.01
224383_at	4T	0.01
219981_x_at	4T	0.01
238365_s_at	4T	0.01
227601_at	4T	0.01

2T0980 _s_at a/r ποі	226361__at	4T 0.01
225788_at 4T 0.01	238974_at	4T 0.01
201429_s_at 4T 0.01	242727_at	4T 0.01
213600_at 4T 0.01	218289_s_at	4T 0.01
40359_at 4T 0.01	207850_at	4T 0.01
32069_at 4T 0.01	224963_at	4T 0.01
213811_x_at 4T 0.01	207097_s_at	4T 0.01
203802_x_at 4T 0.01	236007_at	4T 0.01
207225_at 4T 0.01	229335_at	4T 0.01
204142_at 4T 0.01	201917_s_at	4T 0.01
217783_s_at 4T 0.01	214954_at	4T 0.01
209418_s_at 4T 0.01	223163_s_at	4T 0.01
225607_at 4T 0.01	1554966_a_at	4T 0.01
231756_at 4T 0.01	207643_s_at	4T 0.01
1553462_at 4T 0.01	206209_s_at	4T 0.01
231809_x_at 4T 0.01	208084_at	4T 0.01
224578_at 4T 0.01	243805_at	4T 0.01
200026_at 4T 0.01	208239_at	4T 0.01
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223101_s_at 4T 0.01	233252_s_at	4T 0.01
225050_at 4T 0.01	209004_s_at	4T 0.01
201192_s_at 4T 0.01	209942_x_at	4T 0.01
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225331_at 4T 0.01	1553704_x_at	4T 0.01
224721_at 4T 0.01	39817_s_at	4T 0.01
216638_s_at 4T 0.01	1553703_at	4T 0.01
211651_s_at 4T 0.01	208914_at	4T 0.01
209911_x_at 4T 0.01	1564504_at	4T 0.01
202698_x_at 4T 0.01	218669_at	4T 0.01
1553126_a_at 4T 0.01	219549_s_at	4T 0.01
208695_s_at 4T 0.01	231863_at	4T 0.01
205374_at 4T 0.01	219854_at	4T 0.01
214966_at 4T 0.01	221335_x_at	4T 0.01
225183_at 4T 0.01	1553349_at	4T 0.01
1553134_s_at 4T 0.01	231875_at	4T 0.01
205062_x_at 4T 0.01	200057_s_at	4T 0.01
205500_at 4T 0.01	207272_at	4T 0.01
205286_at 4T 0.01	206110_at	4T 0.01
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226901_at 4T 0.01	206389_s_at	4T 0.01
224593_at 4T 0.01	208972_s_at	4T 0.01
235348_at 4T 0.01	220013_at	4T 0.01
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219097_x_at 4T 0.01	212334_at	4T 0.01
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212819_at 4T 0.01	1554547_at	4T 0.01
214084_x_at 4T 0.01	226204_at	4T 0.01
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204771_s_at 4T 0.01	220671_at	4T 0.01
204791_at 4T 0.01	202995_s_at	4T 0.01
203474_at 4T 0.01	1553387_at	4T 0.01
222538_s_at 4T 0.01	223915_at	4T 0.01
221208_s_at 4T 0.01	218115_at	4T 0.01
202971_s_at 4T 0.01	202974_at	4T 0.01
206966_s_at 4T 0.01	201572_x_at	4T 0.01
205255_x_at 4T 0.01	48808_at	4T 0.01
207707_s_at 4T 0.01	219157_at	4T 0.01
201456_s_at 4T 0.01	234005_x_at	4T 0.01
200956_s_at 4T 0.01	210681_s_at	4T 0.01
201846_s_at 4T 0.01	203240_at	4T 0.01
219363_s_at 4T 0.01	211548_s_at	4T 0.01

Z 0077 3'x'aÈ" 4T -oroi

Probe	Suffix			Probe	Suffix		
204204	_at	4T	0.01	205844	_at	4T	0.01
203167	_at	4T	0.01	205231	_s_at	4T	0.01
200926	_at	4T	0.01	203133	_at	4T	0.01
236290	_at	4T	0.01	212268	_at	4T	0.01
219006	_at	4T	0.01	206238	_s_at	4T	0.01
218552	_at	4T	0.01	203324	_s_at	4T	0.01
236436	_at	4T	0.01	207655	_s_at	4T	0.01
201430	_s_at	4T	0.01	235643	_at	4T	0.01
1558622	_a_at	4T	0.01	213947	_s_at	4T	0.01
221472	_at	4T	0.01	224713	_at	4T	0.01
209265	_s_at	4T	0.01	224564	_s_at	4T	0.01
220169	_at	4T	0.01	209643	_s_at	4T	0.01
206208	_at	4T	0.01	219057	_at	4T	0.01
217583	_at	4T	0.01	221311	_x_at	4T	0.01
219150	_s_at	4T	0.01	241987	_x_at	4T	0.01
219462	_at	4T	0.01	228184	_at	4T	0.01
228500	_at	4T	0.01	231824	_at	4T	0.01
217039	_x_at	4T	0.01	203117	_s_at	4T	0.01
204812	_at	4T	0.01	202153	_s_at	4T	0.01
203522	_at	4T	0.01	201348	_at	4T	0.01
208410	_x_at	4T	0.01	202266	_at	4T	0.01
205016	_at	4T	0.01	1552669	_at	4T	0.01
200989	_at	4T	0.01	222711	_s_at	4T	0.01
221801	_x_at	4T	0.01	225604	_s_at	4T	0.01
213437	_at	4T	0.01	1568592	_at	4T	0.01
201674	_s_at	4T	0.01	218244	_at	4T	0.01
208508	_s_at	4T	0.01	228183	_s_at	4T	0.01
242825	_at	4T	0.01	205671	_s_at	4T	0.01
209880	_s_at	4T	0.01	206462	_s_at	4T	0.01
207791	_s_at	4T	0.01	225424	_at	4T	0.01
234955	_at	4T	0.01	225622	_at	4T	0.01
208783	_s_at	4T	0.01	1561286	_a_at	4T	0.01
207545	_s_at	4T	0.01	212311	_at	4T	0.01
225163	_at	4T	0.01	201682	_at	4T	0.01
225014	_at	4T	0.01	239212	_at	4T	0.01
218798	_at	4T	0.01	232014	_at	4T	0.01
211379	_x_at	4T	0.01	214222	_at	4T	0.01
209881	_s_at	4T	0.01	207078	_at	4T	0.01
221988	_at	4T	0.01	226619	_at	4T	0.01
221485	_at	4T	0.01	203936	_s_at	4T	0.01
220068	_at	4T	0.01	203478	_at	4T	0.01
232208	_at	4T	0.01	1555866	_a_at	4T	0.01
201600	_at	4T	0.01	221177	_at	4T	0.01
219788	_at	4T	0.01	227942	_s_at	4T	0.01
220481	_at	4T	0.01	236087	_at	4T	0.01
208787	_at	4T	0.01	209349	_at	4T	0.01
1554952	_s_at	4T	0.01	211251	_x_at	4T	0.01
226925	_at	4T	0.01	207231	_at	4T	0.01
1553099	_at	4T	0.01	235027	_at	4T	0.01
214473	_x_at	4T	0.01	206482	_at	4T	0.01
177	_at	4T	0.01	217835	_x_at	4T	0.01
237016	_at	4T	0.01	203229	_s_at	4T	0.01
222639	_s_at	4T	0.01	203575	_at	4T	0.01
220175	_s_at	4T	0.01	214118	_x_at	4T	0.01
225455	_at	4T	0.01	215541	_s_at	4T	0.01
203635	_at	4T	0.01	207669	_at	4T	0.01
203227	_s_at	4T	0.01	202856	_s_at	4T	0.01
206286	_s_at	4T	0.01	226707	_at	4T	0.01
213730	_x_at	4T	0.01	208873	_s_at	4T	0.01
222792	_s_at	4T	0.01	200629	_at	4T	0.01
207397	_s_at	4T	0.01	214086	_s_at	4T	0.01
219162	_s_at	4T	0.01	206391	_at	4T	0.01
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				1553886	_at	4T	0.01

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223284_at	4T	0.01		224625_x_at	4T	0.01
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225994_at	4T	0.01		202193_at	4T	0.01
201482_at	4T	0.01		221077_at	4T	0.01
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203579_s_at	4T	0.01		208455_at	4T	0.01
220715_at	4T	0.01		232456_at	4T	0.01
203611_at	4T	0.01		203376_at	4T	0.01
228293_at	4T	0.01		202710_at	4T	0.01
202676_x_at	4T	0.01		207445_s_at	4T	0.01
205698_s_at	4T	0.01		202690_s_at	4T	0.01
204504_s_at	4T	0.01		224719_s_at	4T	0.01
224334_s_at	4T	0.01		226510_at	4T	0.01
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208432_s_at	4T	0.01		39248_at	4T	0.01
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218953_s_at	4T	0.01		218511_s_at	4T	0.01
217937_s_at	4T	0.01		218986_s_at	4T	0.01
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207995_s_at	4T	0.01		214937_x_at	4T	0.01
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202665_s_at	4T	0.01		209808_x_at	4T	0.01
209877_at	4T	0.01		203219_s_at	4T	0.01
229631_at	4T	0.01		202375_at	4T	0.01
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221080_s_at	4T	0.01		206296_x_at	4T	0.01
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218232_at	4T	0.01		205047_s_at	4T	0.01
231743_at	4T	0.01		207540_s_at	4T	0.01
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200092_s_at	4T	0.01		200885_at	4T	0.01
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217109_at	4T	0.01		221789_x_at	4T	0.01
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205042_at	4T	0.01		203900_at	4T	0.01
1557091_at	4T	0.01		212659_s_at	4T	0.01
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211848_s_at	4T	0.01		209449_at	4T	0.01
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235690_at	4T	0.01	220509_at	4T	0.01
204080_at	4T	0.01	205104_at	4T	0.01
201626_at	4T	0.01	235089_at	4T	0.01
204143_s_at	4T	0.01	203171_s_at	4T	0.01
206550_s_at	4T	0.01	234305_s_at	4T	0.01
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208593_x_at	4T	0.01	213592_at	4T	0.01
217918_at	4T	0.01	206826_at	4T	0.01
211102_s_at	4T	0.01	206571_s_at	4T	0.01
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218924_s_at	4T	0.01	200652_at	4T	0.01
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204639_at	4T	0.01	219497_s_at	4T	0.01
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205036_at	4T	0.01	217837_s_at	4T	0.01
239738_at	4T	0.01	204450_x_at	4T	0.01
211623_s_at	4T	0.01	228358_at	4T	0.01
225074_at	4T	0.01	223240_at	4T	0.01
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237730_at	4T	0.01	217797_at	4T	0.01
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211345_x_at	4T	0.01	1555478_at	4T	0.01
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201392_s_at	4T	0.01	218609_s_at	4T	0.01
227666_at	4T	0.01	223442_at	4T	0.01
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207787_at	4T	0.01	230511_at	4T	0.01
235177_at	4T	0.01	201010_s_at	4T	0.01
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223121_s_at	4T	0.01	232104_at	4T	0.01
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208070_s_at	4T	0.04	1552427_at	4T	0.04
208770_s_at	4T	0.04	223700_at	4T	0.04
209082_s_at	4T	0.04	202267_at	4T	0.04
1553612_at	4T	0.04	204215_at	4T	0.04
1552423_at	4T	0.04	218620_s_at	4T	0.04
201727_s_at	4T	0.04	217599_s_at	4T	0.04
201534_s_at	4T	0.04	213579_s_at	4T	0.04
201382_at	4T	0.04	227207_x_at	4T	0.04
201999_s_at	4T	0.04	224759_s_at	4T	0.04

L2T3623;fa't	4T	0.04	208153_s_at	4T	0.04
200972_at	4T	0.04	207460_at	4T	0.04
219926_at	4T	0.04	204398_s_at	4T	0.04
204004_at	4T	0.04	201522_x_at	4T	0.04
220537_at	4T	0.04	205414_s_at	4T	0.04
1569107_s_at	4T	0.04	208789_at	4T	0.04
220170_at	4T	0.04	223992_x_at	4T	0.04
223345_at	4T	0.04	203046_s_at	4T	0.04
206337_at	4T	0.04	238687_x_at	4T	0.04
219819_s_at	4T	0.04	235037_at	4T	0.04
220491_at	4T	0.04	218754_at	4V	2.51e-06
210215_at	4T	0.04	213836_s_at	4V	2.56e-06
213889_at	4T	0.04	209441_at	4V	3.5e-06
205901_at	4T	0.04	214696_at	4V	1.15e-05
1555500_s_at	4T	0.04	225755_at	4V	1.17e-05
51200_at	4T	0.04	214688_at	4V	1.18e-05
230452_at	4T	0.04	222311_s_at	4V	2.28e-05
219152_at	4T	0.04	205612_at	4V	2.28e-05
212638_s_at	4T	0.04	218441_s_at	4V	3.28e-05
220883_at	4T	0.04	226267_at	4V	4.21e-05
1561335_at	4T	0.04	224634_at	4V	4.21e-05
204186_s_at	4T	0.04	209081_s_at	4V	4.21e-05
238722_x_at	4T	0.04	206495_s_at	4V	4.54e-05
1552887_at	4T	0.04	224550_s_at	4V	6.06e-05
209025_s_at	4T	0.04	225282_at	4V	7.41e-05
215718_s_at	4T	0.04	220000_at	4V	7.41e-05
227100_at	4T	0.04	217916_s_at	4V	7.41e-05
210617_at	4T	0.04	204793_at	4V	7.41e-05
232891_at	4T	0.04	210279_at	4V	7.41e-05
204 4 61_x_at	4T	0.04	209308_s_at	4V	7.41e-05
201391_at	4T	0.04	208786_s_at	4V	7.41e-05
202241_at	4T	0.04	1552291_at	4V	7.41e-05
218174_s_at	4T	0.04	1552930_at	4V	7.41e-05
215880_at	4T	0.04	200998_s_at	4V	7.41e-05
1559502_s_at	4T	0.04	206841_at	4V	8.16e-05
220471_s_at	4T	0.04	206205_at	4V	9.92e-05
201433_s_at	4T	0.04	204376_at	4V	1.05e-04
201914_s_at	4T	0.04	203440_at	4V	1.1e-04
228703_at	4T	0.04	203435_s_at	4V	1.25e-04
208529_at	4T	0.04	206209_s_at	4V	1.25e-04
223297_at	4T	0.04	201887_at	4V	1.25e-04
221670_s_at	4T	0.04	207665_at	4V	1.37e-04
210459_at	4T	0.04	214060_at	4V	1.42e-04
232162_at	4T	0.04	203914_x_at	4V	1.49e-04
212966_at	4T	0.04	219724_s_at	4V	1.59e-04
226749_at	4T	0.04	211530_x_at	4V	1.65e-04
221971_x_at	4T	0.04	1552263_at	4V	1.73e-04
207619_at	4T	0.04	202813_at	4V	1.86e-04
1552389_at	4T	0.04	209826_at	4V	1.89e-04
209165_at	4T	0.04	208924_at	4V	1.9e-04
212101_at	4T	0.04	1552879_a_at	4V	1.91e-04
200857_s_at	4T	0.04	231845_at	4V	1.94e-04
214166_at	4T	0.04	223917_s_at	4V	1.96e-04
219121_s_at	4T	0.04	205750_at	4V	2.0e-04
204994_at	4T	0.04	224640_at	4V	2.05e-04
243426_at	4T	0.04	219859_at	4V	2.05e-04
240602_at	4T	0.04	219590_x_at	4V	2.05e-04
206306_at	4T	0.04	212636_at	4V	2.05e-04
238648_at	4T	0.04	221478_at	4V	2.05e-04
231577_s_at	4T	0.04	202787_s_at	4V	2.05e-04
221658_s_at	4T	0.04	202887_s_at	4V	2.05e-04
200905_x_at	4T	0.04	204995_at	4V	2.05e-04
224187_x_at	4T	0.04	206177_s_at	4V	2.05e-04
200768_s_at	4T	0.04	205191_at	4V	2.05e-04

207990_x_at	4V	2.7.8e-04	208092_s_at	4V	4.99e-04
209184_s_at	4V	2.05e-04	1567107_s_at	4V	4.99e-04
1556588_at	4V	2.05e-04	1558699_a_at	4V	4.99e-04
201925_s_at	4V	2.05e-04	224661_at	4V	5.01e-04
201482_at	4V	2.05e-04	222656_at	4V	5.02e-04
222631_at	4V	2.21e-04	207768_at	4V	5.26e-04
203580_s_at	4V	2.25e-04	223431_at	4V	5.29e-04
204261_s_at	4V	2.27e-04	242727_at	4V	5.36e-04
201490_s_at	4V	2.37e-04	203472_s_at	4V	5.38e-04
220426_at	4V	2.4e-04	219765_at	4V	5.4e-04
204379_s_at	4V	2.43e-04	228512_at	4V	5.55e-04
203471_s_at	4V	2.46e-04	231406_at	4V	5.61e-04
203144_s_at	4V	2.49e-04	204507_s_at	4V	5.67e-04
235020_at	4V	2.5e-04	209021_x_at	4V	5.69e-04
220033_at	4V	2.68e-04	214581_x_at	4V	6.01e-04
218794_s_at	4V	2.71e-04	224820_at	4V	6.2e-04
222480_at	4V	2.81e-04	208398_s_at	4V	6.24e-04
214427_at	4V	3.01e-04	203019_x_at	4V	6.3e-04
218601_at	4V	3.02e-04	211372_s_at	4V	6.34e-04
1570373_at	4V	3.22e-04	208895_s_at	4V	6.37e-04
226739_at	4V	3.24e-04	212079_s_at	4V	6.43e-04
224797_at	4V	3.24e-04	212234_at	4V	6.45e-04
225031_at	4V	3.24e-04	240913_at	4V	6.58e-04
225177_at	4V	3.24e-04	211548_s_at	4V	6.63e-04
226875_at	4V	3.24e-04	209999_x_at	4V	6.64e-04
225261_x_at	4V	3.24e-04	1567238_at	4V	6.71e-04
238045_at	4V	3.24e-04	220047_at	4V	6.82e-04
218650_at	4V	3.24e-04	221206_at	4V	6.87e-04
211711_s_at	4V	3.24e-04	221489_s_at	4V	7.02e-04
210740_s_at	4V	3.24e-04	208763_s_at	4V	7.3e-04
209185_s_at	4V	3.24e-04	226956_at	4V	7.48e-04
207657_x_at	4V	3.24e-04	226026_at	4V	7.48e-04
209019_s_at	4V	3.24e-04	238635_at	4V	7.48e-04
205715_at	4V	3.31e-04	239067_s_at	4V	7.48e-04
204839_at	4V	3.44e-04	235744_at	4V	7.48e-04
1553020_at	4V	3.46e-04	220138_at	4V	7.48e-04
230528_s_at	4V	3.47e-04	219539_at	4V	7.48e-04
203389_at	4V	3.59e-04	212831_at	4V	7.48e-04
206739_at	4V	3.73e-04	212334_at	4V	7.48e-04
209841_s_at	4V	4.03e-04	212875_s_at	4V	7.48e-04
214706_at	4V	4.04e-04	217748_at	4V	7.48e-04
208779_x_at	4V	4.13e-04	203474_at	4V	7.48e-04
217094_s_at	4V	4.18e-04	223276_at	4V	7.48e-04
211413_s_at	4V	4.42e-04	222396_at	4V	7.48e-04
203712_at	4V	4.44e-04	212077_at	4V	7.48e-04
220784_s_at	4V	4.5e-04	210370_s_at	4V	7.48e-04
229665_at	4V	4.67e-04	210097_s_at	4V	7.48e-04
230214_at	4V	4.71e-04	202034_x_at	4V	7.48e-04
205193_at	4V	4.86e-04	202061_s_at	4V	7.48e-04
213846_at	4V	4.96e-04	205214_at	4V	7.48e-04
206218_at	4V	4.98e-04	207205_at	4V	7.48e-04
226489_at	4V	4.99e-04	1552628_a_at	4V	7.48e-04
228499_at	4V	4.99e-04	200919_at	4V	7.48e-04
219157_at	4V	4.99e-04	208158_s_at	4V	7.56e-04
203966_s_at	4V	4.99e-04	214539_at	4V	7.58e-04
203508_at	4V	4.99e-04	207001_x_at	4V	7.61e-04
222108_at	4V	4.99e-04	226338_at	4V	7.73e-04
210724_at	4V	4.99e-04	200053_at	4V	7.74e-04
202770_s_at	4V	4.99e-04	239430_at	4V	7.78e-04
202974_at	4V	4.99e-04	219952_s_at	4V	8.14e-04
202855_s_at	4V	4.99e-04	203400_s_at	4V	8.15e-04
205016_at	4V	4.99e-04	221561_at	4V	8.27e-04
207419_s_at	4V	4.99e-04	58367_s_at	4V	8.49e-04
205756_s_at	4V	4.99e-04	203470_s_at	4V	8.53e-04

214011_s_at	4V	8.6e-04
203913_s_at	4V	8.7e-04
209082_s_at	4V	8..78e-04
217734_s_at	4V	8.91e-04
217831_s_at	4V	9.5e-04
223412_at	4V	9.59e-04
217743__s_at	4V	9.65e-04
221191_at	4V	9.67e-04
213190_at	4V	9.85e-04
202781_s_at	4V	9.88e-04
207006_s_at	4V	9.88e-04
20264 3_s_at	4V	9.94e-04
219999_at	4V	9.97e-04
1552343_s_at	4V	1.000348e-03
233986_s_at	4V	1.012704e-03
222235_s_at	4V	1.021162e-03
206370_at	4V	1.025193e-03
236040_at	4V	1.040131e-03
213045_at	4V	1.041494e-03
226764_at	4V	1.042415e-03
204924_at	4V	1.048244e-03
215952_s_at	4V	1.053544e-03
201491_at	4V	1.057697e-03
218865_at	4V	1.059491e-03
206893_at	4V	1.069659e-03
223709_s_at	4V	1.091347e-03
211731_x_at	4V	1.094111e-03
225133_at	4V	1.096514e-03
225050_at	4V	1.096514e-03
226443_at	4V	1.096514e-03
22584 9_s_at	4V	1.096514e-03
238996_x_at	4V	1.096514e-03
233587_s_at	4V	1.096514e-03
238429_at	4V	1.096514e-03
219595_at	4V	1.096514e-03
219544_at	4V	1.096514e-03
218773_s_at	4V	1.096514e-03
213842_x_at	4V	1.096514e-03
214100_x_at	4V	1.096514e-03
218196_at	4V	1.096514e-03
218132_s_at	4V	1.096514e-03
2177 62_s_at	4V	1.096514e-03
204501_at	4V	1.096514e-03
204327_s_at	4V	1.096514e-03
220940_at	4V	1.096514e-03
220969_s_at	4V	1.096514e-03
223044_at	4V	1.096514e-03
220476_s_at	4V	1.096514e-03
223084_s_at	4V	1.096514e-03
221485_at	4V	1.096514e-03
210980_s_at	4V	1.096514e-03
202789_at	4V	1.096514e-03
202926_at	4V	1.096514e-03
202651_at	4V	1.096514e-03
205544_s_at	4V	1.096514e-03
205981_s_at	4V	1.096514e-03
205671_s_at	4V	1.096514e-03
1559050_at	4V	1.096514e-03
1556283_s_at	4V	1.096514e-03
200999_s_at	4V	1.096514e-03
202032_s_at	4V	1.097017e-03
217774_s_at	4V	1.099898e-03
220486_x_at	4V	1.116164e-03
201684_s_at	4V	1.116519e-03
200863_s_at	4V	1.121565e-03
218949_s_at	4V	1.131266e-03
234733_s_at	4V	1.131629e-03
209840_s_at	4V	1.154255e-03
1563458_at	4V	1.172109e-03
203760_s_at	4V	1.178358e-03
219741_x_at	4V	1.182658e-03
202350_s_at	4V	1.182844e-03
224377_s_at	4V	1.192838e-03
219870_at	4V	1.194518e-03
203499_at	4V	1.198594e-03
204481_at	4V	1.221632e-03
220755_s_at	4V	1.223399e-03
218999_at	4V	1.244762e-03
203701_s_at	4V	1.25791e-03
208549_x_at	4V	1.258642e-03
225936_at	4V	1.267316e-03
203058_s_at	4V	1.270363e-03
201771_at	4V	1.278876e-03
1553400_a_at	4V	1.298154e-03
203374_s_at	4V	1.300207e-03
220986_s_at	4V	1.304539e-03
221257_x_at	4V	1.306934e-03
201723_s_at	4V	1.310345e-03
203527_s_at	4V	1.320074e-03
225612_s_at	4V	1.320088e-03
223392_s_at	4V	1.325957e-03
203405_at	4V	1.342543e-03
231967_at	4V	1.347009e-03
218255_s_at	4V	1.362083e-03
1552554_a_at	4V	1.392453e-03
229372_at	4V	1.403431e-03
235089_at	4V	1.410033e-03
202536_at	4V	1.412667e-03
221775_x_at	4V	1.450905e-03
219298_at	4V	1.457743e-03
209015_s_at	4V	1.460372e-03
238940_at	4V	1.47235e-03
202889_x_at	4V	1.476199e-03
203827_at	4V	1.478162e-03
208089_s_at	4V	1.489566e-03
221575_at	4V	1.502428e-03
219717_at	4V	1.515401e-03
208083_s_at	4V	1.520675e-03
211305_x_at	4V	1.530001e-03
213340_s_at	4V	1.530155e-03
201413_at	4V	1.542964e-03
203737_s_at	4V	1.543482e-03
235359_at	4V	1.544076e-03
205403_at	4V	1.5518e-03
236767_at	4V	1.558096e-03
204861_s_at	4V	1.559463e-03
211128_at	4V	1.561316e-03
215021_s_at	4V	1.572794e-03
225243_s_at	4V	1.573399e-03
224831_at	4V	1.573399e-03
224783_at	4V	1.573399e-03
225056_at	4V	1.573399e-03
226767_s_at	4V	1.573399e-03
226018_at	4V	1.573399e-03
227521_at	4V	1.573399e-03
238066_at	4V	1.573399e-03
218735_s_at	4V	1.573399e-03
218492_s_at	4V	1.573399e-03

214321_at	4V	1.573399e-03
214321_at	4V	1.573399e-03
212335_at	4V	1.573399e-03
218181_s_at	4V	1.573399e-03
204132_s_at	4V	1.573399e-03
204352_at	4V	1.573399e-03
204435_at	4V	1.573399e-03
204254_s_at	4V	1.573399e-03
223342_at	4V	1.573399e-03
220776_at	4V	1.573399e-03
222088_s_at	4V	1.573399e-03
203167_at	4V	1.573399e-03
202027_at	4V	1.573399e-03
202833_s_at	4V	1.573399e-03
205844_at	4V	1.573399e-03
205642_at	4V	1.573399e-03
205532_s_at	4V	1.573399e-03
206296_x_at	4V	1.573399e-03
209201_x_at	4V	1.573399e-03
201328_at	4V	1.573399e-03
201871_s_at	4V	1.573399e-03
218292_s_at	4V	1.582736e-03
202101_s_at	4V	1.584326e-03
219133_at	4V	1.58453e-03
230421_at	4V	1.601661e-03
219513_s_at	4V	1.60866e-03
224196_x_at	4V	1.611466e-03
228923_at	4V	1.639475e-03
223907_s_at	4V	1.640775e-03
204677_at	4V	1.656803e-03
211004_s_at	4V	1.657356e-03
211921_x_at	4V	1.668045e-03
1553768_a_at	4V	1.669094e-03
218826_at	4V	1.688684e-03
205562_at	4V	1.689689e-03
212487_at	4V	1.70442e-03
208904_s_at	4V	1.704553e-03
213373_s_at	4V	1.714491e-03
206707_x_at	4V	1.723219e-03
220391_at	4V	1.726928e-03
214541_s_at	4V	1.732433e-03
222408_s_at	4V	1.761083e-03
203103_s_at	4V	1.785104e-03
230050_at	4V	1.796919e-03
214285_at	4V	1.797789e-03
216351_x_at	4V	1.838716e-03
209418_s_at	4V	1.842419e-03
203795_s_at	4V	1.849474e-03
218291_at	4V	1.851775e-03
1554108_at	4V	1.854142e-03
206045_s_at	4V	1.858677e-03
222997_s_at	4V	1.865844e-03
1552440_at	4V	1.871249e-03
201039_s_at	4V	1.874275e-03
219581_at	4V	1.876119e-03
209302_at	4V	1.889895e-03
218315_s_at	4V	1.892982e-03
223393_s_at	4V	1.89833e-03
214291_at	4V	1.914262e-03
1555736_a_at	4V	1.916028e-03
223470_at	4V	1.927291e-03
205034_at	4V	1.931221e-03
202209_at	4V	1.934,882e-03
204194_at	4V	1.938974e-03
220533_at	4V	1.94218e-03
35776_at	4V	1.950397e-03
202187_s_at	4V	1.950518e-03
220874_at	4V	1.956726e-03
203390_s_at	4V	1.973684e-03
219033_at	4V	1.979468e-03
238081_at	4V	1.986533e-03
211097_s_at	4V	1.996286e-03
212974_at	4V	2.015791e-03
200043_at	4V	2.047802e-03
208561_at	4V	2.061904e-03
219998_at	4V	2.069871e-03
1562329_at	4V	2.071949e-03
213670_x_at	4V	2.072658e-03
206942_s_at	4V	2.091166e-03
201044_x_at	4V	2.092034e-03
223742_at	4V	2.09753e-03
49679_s_at	4V	2.09808e-03
216937_s_at	4V	2.102724e-03
210092_at	4V	2.127146e-03
226024_at	4V	2.140138e-03
227852_at	4V	2.144617e-03
204377_s_at	4V	2.151169e-03
203921_at	4V	2.172511e-03
225369_at	4V	2.175651e-03
226614_s_at	4V	2.183556e-03
214440_at	4V	2.186375e-03
222625_s_at	4V	2.192633e-03
40149_at	4V	2.193593e-03
226442_at	4V	2.214552e-03
223988_x_at	4V	2.214552e-03
231756_at	4V	2.214552e-03
220068_at	4V	2.214552e-03
219549_s_at	4V	2.214552e-03
219151_s_at	4V	2.214552e-03
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212719_at	4V	2.214552e-03
212665_at	4V	2.214552e-03
214220_s_at	4V	2.214552e-03
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203525_s_at	4V	2.214552e-03
203900_at	4V	2.214552e-03
204140_at	4V	2.214552e-03
220826_at	4V	2.214552e-03
222218_s_at	4V	2.214552e-03
223454_at	4V	2.214552e-03
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211555_s_at	4V	2.214552e-03
202100_at	4V	2.214552e-03
202334_s_at	4V	2.214552e-03
202275_at	4V	2.214552e-03
205922_at	4V	2.214552e-03
205645_at	4V	2.214552e-03
206522_at	4V	2.214552e-03
206464_at	4V	2.214552e-03
207571_x_at	4V	2.214552e-03
209130_at	4V	2.214552e-03
208864_s_at	4V	2.214552e-03
207991_x_at	4V	2.214552e-03
1554182_at	4V	2.214552e-03
1553579_a_at	4V	2.214552e-03
200648_s_at	4V	2.214552e-03
1558549_s_at	4V	2.214552e-03
1568695_s_at	4V	2.214552e-03

223086_x_at	4V	2.215985e-03	1565795_at	4V	2.886395e-03
204706_at	4V	2.226851e-03	206336_at	4V	2.891885e-03
225196_s_at	4V	2.228463e-03	217491_x_at	4V	2.893314e-03
205953_at	4V	2.229241e-03	218332_at	4V	2.896227e-03
1569207_s_at	4V	2.237328e-03	229264_at	4V	2.902178e-03
218213_s_at	4V	2.242764e-03	228355_s_at	4V	2.924001e-03
202866_at	4V	2.28204e-03	223671_x_at	4V	2.948692e-03
219540_at	4V	2.282919e-03	200888_s_at	4V	2.95501e-03
219962_at	4V	2.299751e-03	214106_s_at	4V	2.987059e-03
1552293_at	4V	2.319045e-03	209902_at	4V	2.98776e-03
201134_x_at	4V	2.320079e-03	37004_at	4V	2.988401e-03
207687_at	4V	2.326331e-03	213444_at	4V	2.989482e-03
221229_s_at	4V	2.33032e-03	223857_x_at	4V	2.994257e-03
218233_s_at	4V	2.332066e-03	200696_s_at	4V	2.995952e-03
203910_at	4V	2.332625e-03	212684_at	4V	2.996496e-03
218356_at	4V	2.333669e-03	209744_x_at	4V	3.008031e-03
204714_s_at	4V	2.340097e-03	231187_at	4V	3.017097e-03
230084_at	4V	2.35571e-03	215599__at	4V	3.020479e-03
226159_at	4V	2.369945e-03	215719_x_at	4V	3.030294e-03
203761_at	4V	2.384488e-03	207279_s_at	4V	3.033918e-03
216248_s_at	4V	2.395505e-03	202426_s_at	4V	3.039747e-03
224330_s_at	4V	2.4269e-03	218880_at	4V	3.043891e-03
221506_s_at	4V	2.437199e-03	36865_at	4V	3.046312e-03
219228_at	4V	2.441268e-03	201109_s_at	4V	3.05584e-03
1569909_at	4V	2.454757e-03	208776_at	4V	3.061629e-03
225790_at	4V	2.45686e-03	223809_at	4V	3.062187e-03
222453_at	4V	2.514945e-03	225237_s_at	4V	3.062187e-03
225573_at	4V	2.521717e-03	224308_s_at	4V	3.062187e-03
233250_x_at	4V	2.521912e-03	225183_at	4V	3.062187e-03
219190_s_at	4V	2.542681e-03	227068_at	4V	3.062187e-03
219066_at	4V	2.564104e-03	226080_at	4V	3.062187e-03
218590_at	4V	2.56866e-03	233842_x_at	4V	3.062187e-03
1558470_at	4V	2.574637e-03	37028_at	4V	3.062187e-03
221689_s_at	4V	2.576024e-03	236562_at	4V	3.062187e-03
241436_at	4V	2.579816e-03	236649_at	4V	3.062187e-03
200772_x_at	4V	2.584453e-03	219269_at	4V	3.062187e-03
221588_x_at	4V	2.584607e-03	219434_at	4V	3.062187e-03
209158_s_at	4V	2.604969e-03	218913_s_at	4V	3.062187e-03
202149_at	4V	2.610942e-03	219889_at	4V	3.062187e-03
202905_x_at	4V	2.619093e-03	218581_at	4V	3.062187e-03
229872_s_at	4V	2.650192e-03	212414_s_at	4V	3.062187e-03
206392_s_at	4V	2.652378e-03	213902_at	4V	3.062187e-03
202785_at	4V	2.673691e-03	213702_x_at	4V	3.062187e-03
230763_at	4V	2.686628e-O3	217764_s_at	4V	3.062187e-03
207421_at	4V	2.694219e-03	217889_s_at	4V	3.062187e-03
205799_s_at	4V	2.701561e-03	217738_at	4V	3.062187e-03
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234864_s_at	4V	2.72241e-03	204351_at	4V	3.062187e-03
219410_at	4V	2.737479e-03	204204_at	4V	3.062187e-03
218117_at	4V	2.73837e-03	203936_s_at	4V	3.062187e-03
200046_at	4V	2.749894e-03	222745_s_at	4V	3.062187e-03
1556744_a_at	4V	2.752018e-03	222875_at	4V	3.062187e-03
213666_at	4V	2.754797e-03	222955_s_at	4V	3.062187e-03
222062_at	4V	2.767091e-03	221234_s_at	4V	3.062187e-03
212078_s_at	4V	2.817819e-03	222891_s_at	4V	3.062187e-03
1559075_s_at	4V	2.82259e-03	220702_at	4V	3.062187e-03
225853_at	4V	2.83982e-03	222548_s_at	4V	3.062187e-03
244546_at	4V	2.844359e-03	223460_at	4V	3.062187e-03
229759_s_at	4V	2.852461e-03	209748_at	4V	3.062187e-03
218379_at	4V	2.861093e-03	211924_s_at	4V	3.062187e-03
205481_at	4V	2.861901e-03	203068_at	4V	3.062187e-03
218005_at	4V	2.865119e-03	202565_s_at	4V	3.062187e-03
209889_at	4V	2.884487e-03	202581_at	4V	3.062'187e-03

207253_s_at	4V	3.062187e-03	220376_at	4V	3.502842e-03
205174_s_at	4V	3.062187e-03	234942_s_at	4V	3.532557e-03
206656_s_at	4V	3.062187e-03	206206_at	4V	3.536349e-03
207857_at	4V	3.062187e-03	203169_at	4V	3.550946e-03
209128_s_at	4V	3.062187e-03	224942_at	4V	3.560521e-03
1555419_a_at	4V	3.062187e-03	227148_at	4V	3.566447e-03
200608_s_at	4V	3.062187e-03	213687_s_at	4V	3.584923e-03
201384_s_at	4V	3.062187e-03	211725_s_at	4V	3.588406e-03
201695_s_at	4V	3.062187e-03	208117_s_at	4V	3.597526e-03
201237_at	4V	3.062187e-03	203045_at	4V	3.607257e-03
201132_at	4V	3.062187e-03	220447_at	4V	3.643206e-03
203375_s_at	4V	3.074854e-03	202591_s_at	4V	3.669648e-03
200957_s_at	4V	3.081601e-03	203097_s_at	4V	3.676369e-03
218190_s_at	4V	3.09956e-03	204842_x_at	4V	3.686355e-03
40687_at	4V	3.101301e-03	223244_s_at	4V	3.69596e-03
212747_at	4V	3.11899e-03	203973_s_at	4V	3.696764e-03
231940_at	4V	3.12585e-03	217896_s_at	4V	3.70718e-03
227968_at	4V	3.130361e-03	221724_s_at	4V	3.714854e-03
212540_at	4V	3.152183e-03	204949_at	4V	3.724295e-03
1569189_at	4V	3.157142e-03	201770_at	4V	3.729199e-03
219233_s_at	4V	3.166772e-03	219128_at	4V	3.730378e-03
220685_at	4V	3.168605e-03	234710_s_at	4V	3.740282e-03
223306_at	4V	3.173753e-03	205121_at	4V	3.74067e-03
222819_at	4V	3.191268e-03	206571_s_at	4V	3.740781e-03
207064_s_at	4V	3.203315e-03	1553134_s_at	4V	3.741001e-03
217492_s_at	4V	3.212644e-03	202266_at	4V	3.751633e-03
231853_at	4V	3.217719e-03	206846_s_at	4V	3.757403e-03
212991_at	4V	3.219607e-03	224803_s_at	4V	3.75842e-03
224632_at	4V	3.222494e-03	201746_at	4V	3.759958e-03
1557056_at	4V	3.225641e-03	223233_s_at	4V	3.761256e-03
226537_at	4V	3.231861e-03	205367_at	4V	3.779894e-03
222057_at	4V	3.236949e-03	222949_at	4V	3.78231e-03
225659_at	4V	3.254342e-03	210027_s_at	4V	3.787041e-03
204905_s_at	4V	3.263059e-03	212429_s_at	4V	3.791462e-03
230489_at	4V	3.272774e-03	201226_at	4V	3.798989e-03
203890_s_at	4V	3.278356e-03	217792_at	4V	3.816374e-03
204396_s_at	4V	3.280052e-03	224467_s_at	4V	3.820913e-03
203650_at	4V	3.283533e-03	224932_at	4V	3.835156e-03
216202_s_at	4V	3.286178e-03	221541_at	4V	3.844656e-03
217805_at	4V	3.286429e-03	220760_x_at	4V	3.85676e-03
202777_at	4V	3.288722e-03	223223_at	4V	3.870086e-03
235263_at	4V	3.305029e-03	205133_s_at	4V	3.884255e-03
223963_s_at	4V	3.31202e-03	220114_s_at	4V	3.916327e-03
218171_at	4V	3.314789e-03	202077_at	4V	3.937588e-03
209297_at	4V	3.33312e-03	1555021_a_at	4V	3.939498e-03
230004_at	4V	3.334158e-03	218177_at	4V	3.941086e-03
211542_x_at	4V	3.345227e-03	227475_at	4V	3.942521e-03
214590_s_at	4V	3.35138e-03	206341_at	4V	3.942736e-03
224657_at	4V	3.357876e-03	212415_at	4V	3.954103e-03
215336_at	4V	3.359689e-03	224563_at	4V	3.966137e-03
55872_at	4V	3.372424e-03	204555_s_at	4V	3.977011e-03
200809_x_at	4V	3.393303e-03	222649_at	4V	3.983469e-03
218076_s_at	4V	3.413248e-03	213588_x_at	4V	3.986873e-03
217885_at	4V	3.425888e-03	1558796_a_at	4V	3.999714e-03
234504_at	4V	3.434255e-03	208182_x_at	4V	4.003438e-03
205541_s_at	4V	3.436151e-03	206030_at	4V	4.018799e-03
201839_s_at	4V	3.436474e-03	207966_s_at	4V	4.020301e-03
218032_at	4V	3.438427e-03	206372_at	4V	4.025154e-03
214784_x_at	4V	3.442941e-03	1553186_x_at	4V	4.047436e-03
218059_at	4V	3.460103e-03	1552845-at	4V	4.047559e-03
203179_at	4V	3.47244e-03	1552575_a_at	4V	4.052573e-03
209187_at	4V	3.48034e-03	200817_x_at	4V	4.070383e-03
1555728_a_at	4V	3.491418e-03	202726_at	4V	4.086201e-03
233970_s_at	4V	3.498488e-03	220890_s_at	4V	4.098663e-03

214136 _at	4V	4.112344e-03
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219378 _at	4V	4.155643e-03
1553272 _at	4V	4.158695e-03
225195 _at	4V	4.165546e-03
224693 _at	4V	4.165546e-03
223528 _s_at	4V	4.165546e-03
227072 _at	4V	4.165546e-03
231793 _s_at	4V	4.165546e-03
228298 _at	4V	4.165546e-03
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205318 _at	4V	4.165546e-03
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201700 _at	4V	4.165546e-03
201780 _s_at	4V	4.165546e-03

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217552 _x_at	4V	4.201879e-03
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239081 _at	4V	4.222881e-03
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240359 _at	4V	4.253072e-03
1559065 _a_at	4V	4.254066e-03
233461 _x_at	4V	4.255916e-03
207618 _s_at	4V	4.258459e-03
221924 _at	4V	4.2598e-03
35685 _at	4V	4.263645e-03
204493 _at	4V	4.263679e-03
206875 _s_at	4V	4.266951e-03
231579 _s_at	4V	4.270193e-03
1553695 _a_at	4V	4.276967e-03
204568 _at	4V	4.280643e-03
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214498 _at	4V	4.287361e-03
222934 _s_at	4V	4.300448e-03
205227 _at	4V	4.30749e-03
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209331 _s_at	4V	4.309431e-03
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200744 _s_at	4V	4.316315e-03
223789 _s_at	4V	4.322517e-03
227844 _at	4V	4.331111e-03
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214108 _at	4V	4.33619e-03
214438 _at	4V	4.341023e-03
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209696 _at	4V	4.355679e-03
219492 _at	4V	4.361002e-03
218115 _at	4V	4.367319e-03
210543 _s_at	4V	4.377458e-03
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202371 _at	4V	4.418469e-03
205173 _x_at	4V	4.42403e-03
230475 _at	4V	4.431885e-03
1553103 _at	4V	4.436775e-03
205865 _at	4V	4.44535e-03
217884 _at	4V	4.482103e-03
228264 _at	4V	4.489448e-03
203029 _s_at	4V	4.495411e-03
210775 _x_at	4V	4.498414e-03
213835 _x_at	4V	4.498653e-03
201342 _at	4V	4.524666e-03
234617 _at	4V	4.533382e-03
235728 _at	4V	4.554764e-03
225173 _at	4V	4.558151e-03
212355 _at	4V	4.563473e-03
204053 _x_at	4V	4.579058e-03
200733 _s_at	4V	4.582692e-03
221208 _s_at	4V	4.594688e-03
212300 _at	4V	4.606559e-03
210306 _at	4V	4.607319e-03
218656 _s_at	4V	4.614485e-03
221057 _at	4V	4.616387e-03
219242 _at	4V	4.624515e-03

205101_at	4V	4.636404e-03	222728_s_at	4V	5.21592e-03
243290_at	4V	4.639016e-03	213131_at	4V	5.218077e-03
221484_at	4V	4.653267e-03	1553861_at	4V	5.222568e-03
208694_at	4V	4.668159e-03	219751_at	4V	5.227281e-03
202475_at	4V	4.683878e-03	221763_at	4V	5.236322e-03
214091_s_at	4V	4.70051e-03	219108_x_at	4V	5.238188e-03
238547_at	4V	4.71227e-03	224496_s_at	4V	5.238986e-03
214455_at	4V	4.725207e-03	220273_at	4V	5.243243e-03
210380_s_at	4V	4.73049e-03	218077_s_at	4V	5.24545e-03
200735_x_at	4V	4.732927e-03	48580_at	4V	5.248611e-03
227143_s_at	4V	4.738434e-03	202047_s_at	4V	5.262023e-03
219054_at	4V	4.761151e-03	240027_at	4V	5.263555e-03
38340_at	4V	4.771668e-03	209118_s_at	4V	5.265968e-03
203569_s_at	4V	4.775663e-03	206803_at	4V	5.291538e-03
201379_s_at	4V	4.782036e-03	228080_at	4V	5.300226e-03
204780_s_at	4V	4.796026e-03	201013_s_at	4V	5.314298e-03
208677_s_at	4V	4.796711e-03	214965_at	4V	5.328578e-03
214397_at	4V	4.798028e-03	222130_s_at	4V	5.339681e-03
203832_at	4V	4.827371e-03	219056_at	4V	5.34336e-03
220960_x_at	4V	4.832708e-03	1553328_a_at	4V	5.359563e-03
221700_s_at	4V	4.846042e-03	219653_at	4V	5.365724e-03
218978_s_at	4V	4.861176e-03	1569490_at	4V	5.399113e-03
201888_s_at	4V	4.861875e-03	240082_s_at	4V	5.426981e-03
203060_s_at	4V	4.871872e-03	201365_at	4V	5.442745e-03
235139_at	4V	4.883412e-03	225686_at	4V	5.474608e-03
1553893_at	4V	4.900971e-03	225043_at	4V	5.477734e-03
228077_at	4V	4.906811e-03	209100_at	4V	5.482273e-03
212059_s_at	4V	4.916975e-03	218319_at	4V	5.486629e-03
225505_s_at	4V	4.928337e-03	212139_at	4V	5.492646e-03
220418_at	4V	4.930605e-03	200708_at	4V	5.49409e-03
1554455_at	4V	4.947134e-03	209317_at	4V	5.499802e-03
201580_s_at	4V	4.956281e-03	237040_at	4V	5.519746e-03
202678_at	4V	4.960764e-03	207647_at	4V	5.530235e-03
224879_at	4V	4.962595e-03	230829_at	4V	5.537036e-03
1558327_at	4V	4.980841e-03	1555015_a_at	4V	5.543429e-03
208791_at	4V	4.991698e-03	203269_at	4V	5.558709e-03
224215_s_at	4V	4.992326e-03	209329_x_at	4V	5.564556e-03
239648_at	4V	4.995878e-03	225576_at	4V	5.581269e-03
201468_s_at	4V	4.998595e-03	225658_at	4V	5.581269e-03
210125_s_at	4V	5.001967e-03	238346_s_at	4V	5.581269e-03
209772_s_at	4V	5.007207e-03	229723_at	4V	5.581269e-03
203014_x_at	4V	5.018279e-03	235085_at	4V	5.581269e-03
221434_s_at	4V	5.020662e-03	235027_at	4V	5.581269e-03
221210_s_at	4V	5.033209e-03	238057_at	4V	5.581269e-03
210772_at	4V	5.063382e-03	235514_at	4V	5.581269e-03
207877_s_at	4V	5.072796e-03	57588_at	4V	5.581269e-03
232302_at	4V	5.074728e-03	220088_at	4V	5.581269e-03
210231_x_at	4V	5.085785e-03	219681_s_at	4V	5.581269e-03
201527_at	4V	5.103736e-03	219104_at	4V	5.581269e-03
218708_at	4V	5.11662e-03	219079_at	4V	5.581269e-03
227208_at	4V	5.116877e-03	219123_at	4V	5.581269e-03
210250_x_at	4V	5.118266e-03	218882_s_at	4V	5.581269e-03
218812_s_at	4V	5.118547e-03	220330_s_at	4V	5.581269e-03
225589_at	4V	5.124475e-03	212862_at	4V	5.581269e-03
210776_x_at	4V	5.127286e-03	212550_at	4V	5.581269e-03
217196_s_at	4V	5.144156e-03	213527_s_at	4V	5.581269e-03
218454_at	4V	5.154395e-03	212572_at	4V	5.581269e-03
202857_at	4V	5.161095e-03	212717_at	4V	5.581269e-03
202621_at	4V	5.175548e-03	214585_s_at	4V	5.581269e-03
219700_at	4V	5.175866e-03	213173_at	4V	5.581269e-03
201049_s_at	4V	5.205671e-03	213218_at	4V	5.581269e-03
225399_at	4V	5.206619e-03	217729_s_at	4V	5.581269e-03
212922_s_at	4V	5.210141e-03	218210_at	4V	5.581269e-03
227402_s_at	4V	5.210702e-03	218033_s_at	4V	5.581269e-03

204440_at	4V	5.581269e-03	221156_x_at	4V	5.904115e-03
204054_at	4V	5.581269e-03	217766_s_at	4V	5.911645e-03
203310_at	4V	5.581269e-03	203012_x_at	4V	5.912613e-03
203434_s_at	4V	5.581269e-03	204510_at	4V	5.91368e-03
203574_at	4V	5.581269e-03	201000_at	4V	5.91725e-03
222547_at	4V	5.581269e-03	213398_s_at	4V	5.924707e-03
221471_at	4V	5.581269e-03	227286_at	4V	5.946058e-03
220774_at	4V	5.581269e-03	236151_at	4V	5.956865e-03
221203_s_at	4V	5.581269e-03	238205_at	4V	5.956983e-03
211138_s_at	4V	5.581269e-03	224937_at	4V	5.974823e-03
210128_s_at	4V	5.581269e-03	227753_at	4V	6.007975e-03
211612_s_at	4V	5.581269e-03	220990_s_at	4V	6.027546e-03
202535_at	4V	5.581269e-03	217527_s_at	4V	6.032107e-03
202375_at	4V	5.581269e-03	218578_at	4V	6.035681e-03
202364_at	4V	5.581269e-03	225180_at	4V	6.037078e-03
202464_s_at	4V	5.581269e-03	225748_at	4V	6.049089e-03
202429_s_at	4V	5.581269e-03	208768_x_at	4V	6.078722e-03
202392_s_at	4V	5.581269e-03	206748_s_at	4V	6.080401e-03
202663_at	4V	5.581269e-03	205438_at	4V	6.086626e-03
202198_s_at	4V	5.581269e-03	228020_at	4V	6.090835e-03
205327_s_at	4V	5.581269e-03	223437_at	4V	6.090908e-03
207078_at	4V	5.581269e-03	208424_s_at	4V	6.098943e-03
205811_at	4V	5.581269e-03	200010_at	4V	6.104062e-03
205883_at	4V	5.581269e-03	202747_s_at	4V	6.10816e-03
207545_s_at	4V	5.581269e-03	209486_at	4V	6.112382e-03
208671_at	4V	5.581269e-03	206350_at	4V	6.128485e-03
200852_x_at	4V	5.581269e-03	222893_s_at	4V	6.134621e-03
1552867_at	4V	5.581269e-03	217303_s_at	4V	6.139645e-03
1555167_s_at	4V	5.581269e-03	221288_at	4V	6.14637e-03
1553269_at	4V	5.581269e-03	219413_at	4V	6.16444e-03
1555606_a_at	4V	5.581269e-03	225126_at	4V	6.177704e-03
1554952_s_at	4V	5.581269e-03	202029_x_at	4V	6.184937e-03
1554624_a_at	4V	5.581269e-03	202961_s_at	4V	6.191053e-03
200737_at	4V	5.581269e-03	204268_at	4V	6.192328e-03
201393_s_at	4V	5.581269e-03	222768_s_at	4V	6.204124e-03
200980_s_at	4V	5.581269e-03	209906_at	4V	6.207223e-03
201651_s_at	4V	5.581269e-03	212686_at	4V	6.219669e-03
201266_at	4V	5.581269e-03	204190_at	4V	6.2314e-03
225414_at	4V	5.619139e-03	1553645_at	4V	6.232125e-03
216360_x_at	4V	5.619479e-03	1558412_at	4V	6.250458e-03
214240_at	4V	5.620617e-03	207429_at	4V	6.283588e-03
231984_at	4V	5.638917e-03	207813_s_at	4V	6.285898e-03
219345_at	4V	5.64503e-03	201492_s_at	4V	6.292787e-03
204926_at	4V	5.647605e-03	223413_s_at	4V	6.309734e-03
219244_s_at	4V	5.660729e-03	213084_x_at	4V	6.312072e-03
213168_at	4V	5.663681e-03	212585_at	4V	6.325293e-03
201577_at	4V	5.664889e-03	203765_at	4V	6.329595e-03
223347_at	4V	5.671871e-03	209106_at	4V	6.332964e-03
37152_at	4V	5.697492e-03	1555002_at	4V	6.333506e-03
215773_x_at	4V	5.698293e-03	211686_s_at	4V	6.338601e-03
209168_at	4V	5.706822e-03	201795_at	4V	6.350231e-03
208705_s_at	4V	5.710494e-03	208825_x_at	4V	6.360815e-03
227850_x_at	4V	5.729189e-03	221030_s_at	4V	6.395019e-03
214198_s_at	4V	5.743483e-03	225969_at	4V	6.396631e-03
228009_x_at	4V	5.744989e-03	218631_at	4V	6.403031e-03
208834_x_at	4V	5.776766e-03	201181_at	4V	6.404226e-03
224137_at	4V	5.799284e-03	207389_at	4V	6.407492e-03
232986_at	4V	5.801876e-03	217739_s_at	4V	6.421782e-03
1553666_at	4V	5.820463e-03	220704_at	4V	6.422833e-03
216915_s_at	4V	5.827268e-03	203066_at	4V	6.431415e-03
228134_at	4V	5.832548e-03	239382_at	4V	6.464706e-03
211298_s_at	4V	5.835257e-03	212516_at	4V	6.467616e-03
226296_s_at	4V	5.851257e-03	218680_x_at	4V	6.482812e-03
220352_x_at	4V	5.863554e-03	205600_x_at	4V	6.484859e-03

201094_at	4V	6.525788e-03
213607_x_at	4V	6.530206e-03
212330_at	4V	6.533381e-03
217912_at	4V	6.541377e-03
223212_at	4V	6.553897e-03
224871_at	4V	6.587518e-03
219644_at	4V	6.597195e-03
220078_at	4V	6.599114e-03
201797_s_at	4V	6.605107e-03
200734_s_at	4V	6.60699e-03
232486_at	4V	6.607726e-03
226784_at	4V	6.617708e-03
235081_x_at	4V	6.620022e-03
218404_at	4V	6.630326e-03
219156_at	4V	6.643804e-03
225165_at	4V	6.651581e-03
1553218_a_at	4V	6.67649e-03
207439_s_at	4V	6.681845e-03
219130_at	4V	6.698091e-03
209001_s_at	4V	6.69906e-03
212520_s_at	4V	6.70109e-03
212603_at	4V	6.701294e-03
203462_x_at	4V	6.704494e-03
203576_at	4V	6.720363e-03
222403_at	4V	6.735932e-03
1552264_a_at	4V	6.748283e-03
227029_at	4V	6.748551e-03
206632_s_at	4V	6.777252e-03
235896_s_at	4V	6.778859e-03
205015_s_at	4V	6.809682e-03
202147_s_at	4V	6.820214e-03
213752_at	4V	6.833658e-03
201359_at	4V	6.85541e-03
231530_s_at	4V	6.855756e-03
204290_s_at	4V	6.86676e-03
206004_at	4V	6.879814e-03
201940_at	4V	6.899579e-03
1559502_s_at	4V	6.903298e-03
1554800_at	4V	6.905639e-03
1555243_x_at	4V	6.912454e-03
202112_at	4V	6.915469e-03
205963_s_at	4V	6.921137e-03
219641_at	4V	6.931672e-03
223535_at	4V	6.940939e-03
53987_at	4V	6.94373e-03
222140_s_at	4V	6.946492e-03
218642_s_at	4V	6.94876e-03
204559_s_at	4V	6.966896e-03
1557165_s_at	4V	6.967149e-03
203420_at	4V	6.972707e-03
223650_s_at	4V	6.974647e-03
200728_at	4V	6.975947e-03
222394_at	4V	7.010336e-03
200989_at	4V	7.039743e-03
224380_s_at	4V	7.056585e-03
225058_at	4V	7.061423e-03
205384_at	4V	7.069631e-03
213506_at	4V	7.079267e-03
218575_at	4V	7.08278e-03
229063_s_at	4V	7.086439e-03
200834_s_at	4V	7.117368e-03
202727_s_at	4V	7.122033e-03
219476_at	4V	7.125082e-03
222488_s_at	4V	7.129653e-03
200763_s_at	4V	7.130244e-03
205041_s_at	4V	7.131927e-03
223569_at	4V	7.142454e-03
212047_s_at	4V	7.167143e-03
223065_s_at	4V	7.17448e-03
207826_s_at	4V	7.209094e-03
203053_at	4V	7.210742e-03
226470_at	4V	7.21978e-03
1559833_at	4V	7.231516e-03
224513_s_at	4V	7.236742e-03
207529_at	4V	7.250736e-03
227155_at	4V	7.252767e-03
225255_at	4V	7.25327e-03
201412_at	4V	7.256109e-03
230280_at	4V	7.261377e-03
223297_at	4V	7.273475e-03
225061_at	4V	7.278615e-03
213820_s_at	4V	7.298176e-03
222409_at	4V	7.298388e-03
219526_at	4V	7.305875e-03
201532_at	4V	7.320226e-03
219176_at	4V	7.331163e-03
209426_s_at	4V	7.349213e-03
211721_s_at	4V	7.353999e-03
210190_at	4V	7.356452e-03
36711_at	4V	7.367879e-03
224564_s_at	4V	7.373644e-03
224964_s_at	4V	7.373644e-03
224963_at	4V	7.373644e-03
224866_at	4V	7.373644e-03
225604_s_at	4V	7.373644e-03
225154_at	4V	7.373644e-03
226117_at	4V	7.373644e-03
226694_at	4V	7.373644e-03
224593_at	4V	7.373644e-03
226507_at	4V	7.373644e-03
235521_at	4V	7.373644e-03
237208_at	4V	7.373644e-03
230328_at	4V	7.373644e-03
239203_at	4V	7.373644e-03
233252_s_at	4V	7.373644e-03
235507_at	4V	7.373644e-03
236218_at	4V	7.373644e-03
219053_s_at	4V	7.373644e-03
219817_at	4V	7.373644e-03
218610_s_at	4V	7.373644e-03
219132_at	4V	7.373644e-03
212945_s_at	4V	7.373644e-03
213811_x_at	4V	7.373644e-03
214746_s_at	4V	7.373644e-03
214526_x_at	4V	7.373644e-03
213351_s_at	4V	7.373644e-03
214866_at	4V	7.373644e-03
212818_s_at	4V	7.373644e-03
214219_x_at	4V	7.373644e-03
217830_s_at	4V	7.373644e-03
217737_x_at	4V	7.373644e-03
218229_s_at	4V	7.373644e-03
217902_s_at	4V	7.373644e-03
204071_s_at	4V	7.373644e-03
203430_at	4V	7.373644e-03
203266_s_at	4V	7.373644e-03
223376_s_at	4V	7.373644e-03
223047_at	4V	7.373644e-03

221988_at	4V	7.373644e-03		200029_at	4V	7.766145e-03
221704_s_at	4V	7.373644e-03		222815_at	4V	7.786602e-03
221712_s_at	4V	7.373644e-03		205310_at	4V	7.796406e-03
223075_s_at	4V	7.373644e-03		229518_at	4V	7.806149e-03
211051_s_at	4V	7.373644e-03		220443_s_at	4V	7.837043e-03
210117_at	4V	7.373644e-03		200781_s_at	4V	7.840771e-03
209777_s_at	4V	7.373644e-03		200819_s_at	4V	7.863911e-03
210904_s_at	4V	7.373644e-03		202160_at	4V	7.868652e-03
210422_x_at	4V	7.373644e-03		220404_at	4V	7.881705e-03
209864_at	4V	7.373644e-03		225359_at	4V	7.897615e-03
203232_s_at	4V	7.373644e-03		201306_s_at	4V	7.907165e-03
202449_s_at	4V	7.373644e-03		225092_at	4V	7.938666e-03
202418_at	4V	7.373644e-03		204781_s_at	4V	7.94056e-03
202456_s_at	4V	7.373644e-03		221164_x_at	4V	7.954436e-03
202498_s_at	4V	7.373644e-03		202326_at	4V	7.980579e-03
202335_s_at	4V	7.373644e-03		217631_at	4V	7.988663e-03
207384_at	4V	7.373644e-03		211163_s_at	4V	8.002702e-03
206398_s_at	4V	7.373644e-03		218447_at	4V	8.018548e-03
207196_s_at	4V	7.373644e-03		204571_x_at	4V	8.025586e-03
207131_x_at	4V	7.373644e-03		202513_s_at	4V	8.029662e-03
205857_at	4V	7.373644e-03		200003_s_at	4V	8.038911e-03
208878_s_at	4V	7.373644e-03		205496_at	4V	8.06614e-03
208093_s_at	4V	7.373644e-03		206952_at	4V	8.072446e-03
208180_s_at	4V	7.373644e-03		201812_s_at	4V	8.091384e-03
1559584_a_at	4V	7.373644e-03		225872_at	4V	8.094094e-03
1561225_at	4V	7.373644e-03		221602_s_at	4V	8.097514e-03
200011_s_at	4V	7.373644e-03		217529_at	4V	8.108429e-03
1569392_at	4V	7.373644e-03		1557172_x_at	4V	8.116965e-03
201960_s_at	4V	7.373644e-03		214461_at	4V	8.12734e-03
201779_s_at	4V	7.373644e-03		33304_at	4V	8.141175e-03
219119_at	4V	7.376369e-03		210999_s_at	4V	8.1486e-03
232287_at	4V	7.383557e-03		1555349__a_at	4V	8.158017e-03
205489_at	4V	7.417685e-03		228332_s_at	4V	8.172131e-03
1552287_s_at	4V	7.428106e-03		211534_x_at	4V	8.17817e-03
200909_s_at	4V	7.430079e-03		235076_at	4V	8.209135e-03
223433_at	4V	7.435555e-03		230587_at	4V	8.21701e-03
204387_x_at	4V	7.44723e-03		218074_at	4V	8.220834e-03
205791_x_at	4V	7.448483e-03		205119_s_at	4V	8.234431e-03
231405_at	4V	7.45326e-03		222657_s_at	4V	8.238347e-03
229974_at	4V	7.47168e-03		219968_at	4V	8.242525e-03
205558_at	4V	7.473238e-03		207436_x_at	4V	8.248298e-03
200875_s_at	4V	7.493837e-03		215181_at	4V	8.257802e-03
212809_at	4V	7.496523e-03		207945_s_at	4V	8.265905e-03
217839_at	4V	7.566152e-03		222223_s_at	4V	8.302767e-03
219768_at	4V	7.574087e-03		222905_s_at	4V	8.32002e-03
224435_at	4V	7.593718e-03		218588_s_at	4V	8.332589e-03
207753_at	4V	7.59475e-03		222578_s_at	4V	8.334045e-03
220169_at	4V	7.597207e-03		222212_s_at	4V	8.357104e-03
233338_at	4V	7.607793e-03		218699_at	4V	8.363388e-03
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203152_at	4V	7.618989e-03		227796_at	4V	8.417114e-03
223018_at	4V	7.631645e-03		202150_s_at	4V	8.417667e-03
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1553363_at	4V	7.648955e-03		200703_at	4V	8.419663e-03
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213460_x_at	4V	7.687122e-03		227233_at	4V	8.443841e-03
214822_at	4V	7.707838e-03		34206_at	4V	8.452723e-03
208517_x_at	4V	7.70955e-03		229881_at	4V	8.455885e-03
205482_x_at	4V	7.710772e-03		74694_s_at	4V	8.456504e-03
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221060_s_at	4V	7.728957e-03		224952_at	4V	8.462154e-03
31807_at	4V	7.73627e-03		213798_s_at	4V	8.469118e-03
203998_s_at	4V	7.738078e-03		202963_at	4V	8.479324e-03

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217475	_s_at	4V	8.53825e-03
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223195	_s_at	4V	8.558929e-03
226557	_at	4V	8.569065e-03
226639	_at	4V	8.570578e-03
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201479	_at	4V	8.615676e-03
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224448_s_at	4V	0.01	204884_s_at	4V	0.01
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209619_at	4V	0.01	208833_s_at	4V	0.01
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213728_at	4V	0.01	218689_at	4V	0.01
208614_s_at	4V	0.01	218627_at	4V	0.01
209558_s_at	4V	0.01	206089_at	4V	0.01
223070_at	4V	0.01	200014_s_at	4V	0.01
200002_at	4V	0.01	226097_at	4V	0.01
218555_at	4V	0.01	224920_x_at	4V	0.01
201772_at	4V	0.01	209882_at	4V	0.01
202882_x_at	4V	0.01	229211_at	4V	0.01
1552553_a_at	4V	0.01	219922_s_at	4V	0.01
219826_at	4V	0.01	232149_s_at	4V	0.01
204483_at	4V	0.01	208826_x_at	4V	0.01
215048_at	4V	0.01	218648_at	4V	0.01
211102_s_at	4V	0.01	224383_at	4V	0.01

Probe		
209481_at	4V	0.01
225788_at	4V	0.01
201429_s_at	4V	0.01
213600_at	4V	0.01
32069_at	4V	0.01
203802_x_at	4V	0.01
207225_at	4V	0.01
204142_at	4V	0.01
204478_s_at	4V	0.01
211100_x_at	4V	0.01
225607_at	4V	0.01
219452_at	4V	0.01
226957_x_at	4V	0.01
209234_at	4V	0.01
213659_at	4V	0.01
1552836_at	4V	0.01
203853_s_at	4V	0.01
231809_x_at	4V	0.01
209569_x_at	4V	0.01
224578_at	4V	0.01
200026_at	4V	0.01
204117_at	4V	0.01
213594_x_at	4V	0.01
201192_s_at	4V	0.01
1560348_at	4V	0.01
225331_at	4V	0.01
224721_at	4V	0.01
203825_at	4V	0.01
1570571_at	4V	0.01
211543_s_at	4V	0.01
209911_x_at	4V	0.01
202698_x_at	4V	0.01
219172_at	4V	0.01
1553126_a_at	4V	0.01
208695_s_at	4V	0.01
228573_at	4V	0.01
205374_at	4V	0.01
214966_at	4V	0.01
232520_s_at	4V	0.01
201040_at	4V	0.01
205062_x_at	4V	0.01
224609_at	4V	0.01
205286_at	4V	0.01
203616_at	4V	0.01
225852_at	4V	0.01
227131_at	4V	0.01
226510_at	4V	0.01
226518_at	4V	0.01
224791_at	4V	0.01
225848_at	4V	0.01
224836_at	4V	0.01
225268_at	4V	0.01
225698_at	4V	0.01
225863_s_at	4V	0.01
224327_s_at	4V	0.01
228069_at	4V	0.01
32032_at	4V	0.01
227946_at	4V	0.01
228184_at	4V	0.01
238122_at	4V	0.01
244523_at	4V	0.01
37793_r_at	4V	0.01
238406_x_at	4V	0.01
244752_at	4V	0.01
218924_s_at	4V	0.01
218739_at	4V	0.01
220146_at	4V	0.01
218782_s_at	4V	0.01
218806_s_at	4V	0.01
218714_at	4V	0.01
220248_x_at	4V	0.01
219892_at	4V	0.01
219202_at	4V	0.01
212933_x_at	4V	0.01
214816_x_at	4V	0.01
212558_at	4V	0.01
218259_at	4V	0.01
218268_at	4V	0.01
216899_s_at	4V	0.01
217819_at	4V	0.01
217028_at	4V	0.01
217418_x_at	4V	0.01
204445_s_at	4V	0.01
204255_s_at	4V	0.01
203818_s_at	4V	0.01
204020_at	4V	0.01
221239_s_at	4V	0.01
222887_s_at	4V	0.01
222693_at	4V	0.01
220945_x_at	4V	0.01
212041_at	4V	0.01
210059_s_at	4V	0.01
210995_s_at	4V	0.01
211576_s_at	4V	0.01
209712_at	4V	0.01
209879_at	4V	0.01
211133_x_at	4V	0.01
209479_at	4V	0.01
202788_at	4V	0.01
202124_s_at	4V	0.01
202006_at	4V	0.01
202064_s_at	4V	0.01
203062_s_at	4V	0.01
202500_at	4V	0.01
202122_s_at	4V	0.01
202845_s_at	4V	0.01
202478_at	4V	0.01
202990_at	4V	0.01
205804_s_at	4V	0.01
206244_at	4V	0.01
206219_s_at	4V	0.01
204985_s_at	4V	0.01
205570_at	4V	0.01
206437_at	4V	0.01
206470_at	4V	0.01
205198_s_at	4V	0.01
205786_s_at	4V	0.01
208914_at	4V	0.01
207988_s_at	4V	0.01
207671_s_at	4V	0.01
208199_s_at	4V	0.01
1553088_a_at	4V	0.01
1554679_a_at	4V	0.01
200609_s_at	4V	0.01
1558254_s_at	4V	0.01
201471_s_at	4V	0.01
201118_at	4V	0.01
201031_s_at	4V	0.01

219363_s_at	4V	0.01
203016_s_at	4V	0.01
203932_at	4V	0.01
207097_s_at	4V	0.01
236007_at	4V	0.01
225582_at	4V	0.01
229335_at	4V	0.01
201917_s_at	4V	0.01
214954_at	4V	0.01
223163_s_at	4V	0.01
1562348_at	4V	0.01
218016_s_at	4V	0.01
207643_s_at	4V	0.01
208084_at	4V	0.01
224666_at	4V	0.01
243805_at	4V	0.01
217964_at	4V	0.01
213352_at	4V	0.01
232891_at	4V	0.01
1552670_a_at	4V	0.01
200730_s_at	4V	0.01
208239_at	4V	0.01
218957_s_at	4V	0.01
209004_s_at	4V	0.01
209942_x_at	4V	0.01
1553704_x_at	4V	0.01
39817_s_at	4V	0.01
1553703_at	4V	0.01
1564504_at	4V	0.01
218669_at	4V	0.01
228590_at	4V	0.01
208284_x_at	4V	0.01
219354_at	4V	0.01
1570410_at	4V	0.01
1553349_at	4V	0.01
231875_at	4V	0.01
233746_x_at	4V	0.01
207791_s_at	4V	0.01
200057_s_at	4V	0.01
1569323_at	4V	0.01
206914_at	4V	0.01
217588_at	4V	0.01
206389_s_at	4V	0.01
208972_s_at	4V	0.01
220013_at	4V	0.01
213212_x_at	4V	0.01
201809_s_at	4V	0.01
226794_at	4V	0.01
212378_at	4V	0.01
207094_at	4V	0.01
1554547_at	4V	0.01
202276_at	4V	0.01
231826_at	4V	0.01
221622_s_at	4V	0.01
201572_x_at	4V	0.01
1553906_s_at	4V	0.01
238365_s_at	4V	0.01
234005_x_at	4V	0.01
224473_x_at	4V	0.01
210681_s_at	4V	0.01
220338_at	4V	0.01
210789_x_at	4V	0.01
203668_at	4V	0.01
200773_x_at	4V	0.01
200926_at	4V	0.01
236290_at	4V	0.01
219006_at	4V	0.01
218552_at	4V	0.01
236436_at	4V	0.01
201430_s_at	4V	0.01
1558622_a_at	4V	0.01
221472_at	4V	0.01
209265_s_at	4V	0.01
217583_at	4V	0.01
224415_s_at	4V	0.01
219462_at	4V	0.01
228500_at	4V	0.01
217039_x_at	4V	0.01
218277_s_at	4V	0.01
200874_s_at	4V	0.01
203522_at	4V	0.01
224369_s_at	4V	0.01
222493_s_at	4V	0.01
211960_s_at	4V	0.01
218831_s_at	4V	0.01
221801_x_at	4V	0.01
213437_at	4V	0.01
201674_s_at	4V	0.01
214042_s_at	4V	0.01
242825_at	4V	0.01
204617_s_at	4V	0.01
234955_at	4V	0.01
225163_at	4V	0.01
225014_at	4V	0.01
218798_at	4V	0.01
212817_at	4V	0.01
211379_x_at	4V	0.01
209731_at	4V	0.01
209881_s_at	4V	0.01
206440_at	4V	0.01
232208_at	4V	0.01
201600_at	4V	0.01
214543_x_at	4V	0.01
220481_at	4V	0.01
219503_s_at	4V	0.01
208787_at	4V	0.01
1553099_at	4V	0.01
223949_at	4V	0.01
213572_s_at	4V	0.01
237016_at	4V	0.01
205568_at	4V	0.01
202442_at	4V	0.01
222639_s_at	4V	0.01
203635_at	4V	0.01
203227_s_at	4V	0.01
206286_s_at	4V	0.01
213730_x_at	4V	0.01
222792_s_at	4V	0.01
207397_s_at	4V	0.01
219162_s_at	4V	0.01
227587_at	4V	0.01
202914_js_at	4V	0.01
209662_at	4V	0.01
205231_s_at	4V	0.01
203133_at	4V	0.01
213490_s_at	4V	0.01
212268_at	4V	0.01
206238_s_at	4V	0.01

203324_s_at	4V	0.01	202676_x_at	4V	0.01
207655_s_at	4V	0.01	204504_s_at	4V	0.01
212237_at	4V	0.01	224334_s_at	4V	0.01
209419_at	4V	0.01	1553719_s_at	4V	0.01
202846_s_at	4V	0.01	230953_at	4V	0.01
218133_s_at	4V	0.01	1557141_at	4V	0.01
213947_s_at	4V	0.01	31837_at	4V	0.01
224713_at	4V	0.01	219647_at	4V	0.01
204128_s_at	4V	0.01	208432_s_at	4V	0.01
219057_at	4V	0.01	222134_at	4V	0.01
221311_x_at	4V	0.01	203800_s_at	4V	0.01
203117_s_at	4V	0.01	220796_x_at	4V	0.01
202153_s_at	4V	0.01	205356_at	4V	0.01
204164_at	4V	0.01	201416_at	4V	0.01
1559469_s_at	4V	0.01	200672_x_at	4V	0.01
1568592_at	4V	0.01	207625_s_at	4V	0.01
218244_at	4V	0.01	218953_s_at	4V	0.01
207808_s_at	4V	0.01	220971_at	4V	0.01
228183_s_at	4V	0.01	207995_s_at	4V	0.01
205936_s_at	4V	0.01	223493_at	4V	0.01
206462_s_at	4V	0.01	216199_s_at	4V	0.01
210506_at	4V	0.01	203614_at	4V	0.01
1561286_a_at	4V	0.01	223682_s_at	4V	0.01
225795_at	4V	0.01	220474_at	4V	0.01
212311_at	4V	0.01	210964_s_at	4V	0.01
201682_at	4V	0.01	202665_s_at	4V	0.01
226619_at	4V	0.01	229631_at	4V	0.01
203478_at	4V	0.01	204958_at	4V	0.01
221177_at	4V	0.01	221080_s_at	4V	0.01
227942_s_at	4V	0.01	217768_at	4V	0.01
236087_at	4V	0.01	218232_at	4V	0.01
209349_at	4V	0.01	231743_at	4V	0.01
211251_x_at	4V	0.01	203397_s_at	4V	0.01
209410_s_at	4V	0.01	206236_at	4V	0.01
207231_at	4V	0.01	200092_s_at	4V	0.01
208341_x_at	4V	0.01	212541_at	4V	0.01
242943_at	4V	0.01	241881_at	4V	0.01
212274_at	4V	0.01	214662_at	4V	0.01
217835_x_at	4V	0.01	1557091_at	4V	0.01
203229_s_at	4V	0.01	211848_s_at	4V	0.01
214118_x_at	4V	0.01	1568925_at	4V	0.01
215541_s_at	4V	0.01	218290_at	4V	0.01
207669_at	4V	0.01	204484_at	4V	0.01
214086_s_at	4V	0.01	222983_s_at	4V	0.01
200965_s_at	4V	0.01	229044_at	4V	0.01
200748_s_at	4V	0.01	217976_s_at	4V	0.01
212232_at	4V	0.01	224625_x_at	4V	0.01
1553886_at	4V	0.01	214210_at	4V	0.01
208798_x_at	4V	0.01	208711_s_at	4V	0.01
219037_at	4V	0.01	202193_at	4V	0.01
214830_at	4V	0.01	221077_at	4V	0.01
217769_s_at	4V	0.01	211323_s_at	4V	0.01
223284_at	4V	0.01	224452_s_at	4V	0.01
218828_at	4V	0.01	212714_at	4V	0.01
202566_s_at	4V	0.01	208455_at	4V	0.01
1553900_s_at	4V	0.01	232456_at	4V	0.01
208983_s_at	4V	0.01	209451_at	4V	0.01
211909_x_at	4V	0.01	202710_at	4V	0.01
208804_s_at	4V	0.01	202690_s_at	4V	0.01
220715_at	4V	0.01	227295_at	4V	0.01
203611_at	4V	0.01	225422_at	4V	0.01
228293_at	4V	0.01	227523_s_at	4V	0.01
219819_s_at	4V	0.01	227787_s_at	4V	0.01
208969_at	4V	0.01	226466_s_at	4V	0.01

224662 _at	Tv	0.01		208035 _at	4V	0.01
226306 _at	4V	0.01		208490 _x_at	4V	0.01
224848 _at	4V	0.01		207721 _x_at	4V	0.01
240239 _at	4V	0.01		209023 _s_at	4V	0.01
241372 _at	4V	0.01		209448 _at	4V	0.01
234734 _s_at	4V	0.01		208918 _s_at	4V	0.01
242520 _s_at	4V	0.01		209240 _at	4V	0.01
229560 _at	4V	0.01		1556336 _at	4V	0.01
219373 _at	4V	0.01		1569932 _at	4V	0.01
218912 _at	4V	0.01		1567458 _s_at	4V	0.01
212675 _s_at	4V	0.01		200601 _at	4V	0.01
212483 _at	4V	0.01		1553513 _at	4V	0.01
214298 _x_at	4V	0.01		201377 _at	4V	0.01
214705 _at	4V	0.01		201853 _s_at	4V	0.01
215000 _s_at	4V	0.01		201830 _s_at	4V	0.01
213400 _s_at	4V	0.01		201507 _at	4V	0.01
214881 _s_at	4V	0.01		224787 _s_at	4V	0.01
212864 _at	4V	0.01		207765 _s_at	4V	0.01
215984 _s_at	4V	0.01		201064 _s_at	4V	0.01
218.178_s_at	4V	0.01		238449 _at	4V	0.01
204361 _s_at	4V	0.01		200630 _x_at	4V	0.01
204791 _at	4V	0.01		212659 _s_at	4V	0.01
203560 _at	4V	0.01		218802 _at	4V	0.01
204370 _at	4V	0.01		220001 _at	4V	0.01
204601 _at	4V	0.01		1553512 _at	4V	0.01
204527 _at	4V	0.01		201608 _s_at	4V	0.01
204773 _at	4V	0.01		209449 _at	4V	0.01
223474 _at	4V	0.01		242128 _at	4V	0.01
222995 _s_at	4V	0.01		221601 _s_at	4V	0.01
221519 _at	4V	0.01		235690 _at	4V	0.01
222495 _at	4V	0.01		221135 _s_at	4V	0.01
222489 _s_at	4V	0.01		204080 _at	4V	0.01
223008 _s_at	4V	0.01		204143 _s_at	4V	0.01
221695 _s_at	4V	0.01		206550 _s_at	4V	0.01
210951 _x_at	4V	0.01		224480 _s_at	4V	0.01
212242 _at	4V	0.01		225140 _at	4V	0.01
209484 _s_at	4V	0.01		219293 _s_at	4V	0.01
210739 _x_at	4V	0.01		202083 _s_at	4V	0.01
210249 _s_at	4V	0.01		208593 _x_at	4V	0.01
210225 _x_at	4V	0.01		220794 _at	4V	0.01
209875 _s_at	4V	0.01		209511 _at	4V	0.01
202794 _at	4V	0.01		219680 _at	4V	0.01
202509 _s_at	4V	0.01		227153 _at	4V	0.01
202695 _s_at	4V	0.01		1553626 _a_at	4V	0.01
202587 _s_at	4V	0.01		202168 _at	4V	0.01
202795 _x_at	4V	0.01		204639 _at	4V	0.01
202039 _at	4V	0.01		201516 _at	4V	0.01
202128 _at	4V	0.01		205036 _at	4V	0.01
202215 _s_at	4V	0.01		239738 _at	4V	0.01
202759 _s_at	4V	0.01		211623 _s_at	4V	0.01
202200 _s_at	4V	0.01		225074 _at	4V	0.01
203142 _s_at	4V	0.01		233640 _x_at	4V	0.01
202328 _s_at	4V	0.01		202906 _s_at	4V	0.01
202664 _at	4V	0.01		218092 _s_at	4V	0.01
203022 _at	4V	0.01		205090 _s_at	4V	0.01
202199 _s_at	4V	0.01		203288 _at	4V	0.01
206150 _at	4V	0.01		204645 _at	4V	0.01
205452 _at	4V	0.01		228224 _at	4V	0.01
205733 _at	4V	0.01		214482 _at	4V	0.01
206966 _s_at	4V	0.01		204119 _s_at	4V	0.01
206776 _x_at	4V	0.01		221805 _at	4V	0.01
208947 _s_at	4V	0.01		200826 _at	4V	0.01
208651 _x_at	4V	0.01		214507 _s_at	4V	0.01
207728 _at	4V	0.01		219997 _s_at	4V	0.01

1554167_a_at	4V	0.01		215054_at	4V	0.01
214508_x_at	4V	0.01		213302_at	4V	0.01
204882_at	4V	0.01		200738_s_at	4V	0.01
202766_s_at	4V	0.01		203885_at	4V	0.01
223743_s_at	4V	0.01		221516_s_at	4V	0.01
218208_at	4V	0.01		209089_at	4V	0.01
212885_at	4V	0.01		226165_at	4V	0.01
221962_s_at	4V	0.01		201164_s_at	4V	0.01
204661_at	4V	0.01		235509_at	4V	0.01
236274_at	4V	0.01		241937_s_at	4V	0.01
227964_at	4V	0.01		212500_at	4V	0.01
224824_at	4V	0.01		203545_at	4V	0.01
230721_at	4V	0.01		224439_x_at	4V	0.01
212271_at	4V	0.01		235303_at	4V	0.01
1554903_at	4V	0.01		220176_at	4V	0.01
211919_s_at	4V	0.01		211139_s_at	4V	0.01
208289_s_at	4V	0.01		202728_s_at	4V	0.01
205523_at	4V	0.01		203033_x_at	4V	0.01
223006_s_at	4V	0.01		205179_s_at	4V	0.01
218463_s_at	4V	0.01		219703_at	4V	0.01
1552857_a_at	4V	0.01		222529_at	4V	0.01
220985_s_at	4V	0.01		215117_at	4V	0.01
219397_at	4V	0.01		203708_at	4V	0.01
201137_s_at	4V	0.01		221451_s_at	4V	0.01
206934_at	4V	0.01		209989_at	4V	0.01
239042_at	4V	0.01		221453_at	4V	0.01
202306_at	4V	0.01		224994_at	4V	0.01
220590_at	4V	0.01		202966_at	4V	0.01
224637_at	4V	0.01		222209_s_at	4V	0.01
218118_s_at	4V	0.01		205965_at	4V	0.01
224736_at	4V	0.01		220113_x_at	4V	0.01
206538_at	4V	0.01		204554_at	4V	0.01
209925_at	4V	0.01		211982_x_at	4V	0.01
220607_x_at	4V	0.01		223057_s_at	4V	0.01
211991_s_at	4V	0.01		202749_at	4V	0.01
212689_s_at	4V	0.01		216515_x_at	4V	0.01
205104_at	4V	0.01		218741_at	4V	0.01
203171_s_at	4V	0.01		237730_at	4V	0.01
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218483_s_at	4V	0.02		221904_at	4V	0.02
219766_at	4V	0.02		216590_at	4V	0.02
208835_s_at	4V	0.02		203316_s_at	4V	0.02
212973_at	4V	0.02		202618_s_at	4V	0.02
202717_s_at	4V	0.02		221702_s_at	4V	0.02
219611_s_at	4V	0.02		202919_at	4V	0.02
206659_at	4V	0.02		209042_s_at	4V	0.02
220647_s_at	4V	0.02		201185_at	4V	0.02
209743_s_at	4V	0.02		1554021_a_at	4V	0.02
216074_x_at	4V	0.02		1569805__at	4V	0.02
231434_at	4V	0.02		201341_at	4V	0.02
205279_s_at	4V	0.02		203146_s_at	4V	0.02
210594_x_at	4V	0.02		242006_at	4V	0.02
217740_x_at	4V	0.02		207727_s_at	4V	0.02
227865_at	4V	0.02		201156_s_at	4V	0.02
202084_s_at	4V	0.02		214339_s_at	4V	0.02
221692_s_at	4V	0.02		203041_s_at	4V	0.02
208445_s_at	4V	0.02		209800_at	4V	0.02
218451_at	4V	0.02		218793_s_at	4V	0.02
1553561_at	4V	0.02		218141_at	4V	0.02
211814_s_at	4V	0.02		201756_at	4V	0.02
226007_at	4V	0.02		1552955_at	4V	0.02
226505_x_at	4V	0.02		155 4523_a_at	4V	0.02

221551_x_at	4V	0.02
209567_at	4V	0.02
221425_s_at	4V	0.02
2228 67_s_at	4V	0.02
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213018_at	4V	0.02
222191_s_at	4V	0.02
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209978_s_at	4V	0.02
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236941_at	4V	0.02
229666_s_at	4V	0.02
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34858_at	4V	0.02
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214337_at	4V	0.02
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202539_s_at	4V	0.02
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202349_at	4V	0.02
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205608_s_at	4V	0.02
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205415_s_at	4V	0.02
206380_s_at	4V	0.02

208759_at	4V	0.02		244698_at	4V	0.02
208195_at	4V	0.02		219081_at	4V	0.02
209226_s_at	4V	0.02		212897_at	4V	0.02
208974_x_at	4V	0.02		205729_at	4V	0.02
207922_s_at	4V	0.02		205260_s_at	4V	0.02
208620_at	4V	0.02		219110_at	4V	0.02
208268_at	4V	0.02		218378_s_at	4V	0.02
1569669_at	4V	0.02		235119_at	4V	0.02
200667_at	4V	0.02		217803_at	4V	0.02
1552772_at	4V	0.02		243349_at	4V	0.02
1555241_at	4V	0.02		209732_at	4V	0.02
200847_s_at	4V	0.02		226259_at	4V	0.02
1552703_s_at	4V	0.02		211605_s_at	4V	0.02
201605_x_at	4V	0.02		203880_at	4V	0.02
200954_at	4V	0.02		236267_at	4V	0.02
201494_at	4V	0.02		200066_at	4V	0.02
211085_s_at	4V	0.02		212898_at	4V	0.02
212395_s_at	4V	0.02		220321_s_at	4V	0.02
202237_at	4V	0.02		203219_s_at	4V	0.02
207969_x_at	4V	0.02		212338_at	4V	0.02
200960_x_at	4V	0.02		209527_at	4V	0.02
213851_at	4V	0.02		218461_at	4V	0.02
20119b_s_at	4V	0.02		209853_s_at	4V	0.02
206481_s_at	4V	0.02		202623_at	4V	0.02
202174_s_at	4V	0.02		210537_s_at	4V	0.02
220854_at	4V	0.02		38521_at	4V	0.02
207681_at	4V	0.02		223298_s_at	4V	0.02
220582_at	4V	0.02		208801_at	4V	0.02
222874_s_at	4V	0.02		206414~s_at	4V	0.02
203579_s_at	4V	0.02		32062_at	4V	0.02
231896_s_at	4V	0.02		200045_at	4V	0.02
1555269_a_at	4V	0.02		218096_at	4V	0.02
237504_at	4V	0.02		207931_s_at	4V	0.02
225434_at	4V	0.02		201962_s_at	4V	0.02
215332_s_at	4V	0.02		206049_at	4V	0.02
225850_at	4V	0.02		230836_at	4V	0.02
211378_x_at	4V	0.02		207705_s_at	4V	0.02
1553147_at	4V	0.02		213969_x_at	4V	0.02
206427_s_at	4V	0.02		203965_at	4V	0.02
233929_x_at	4V	0.02		208571_at	4V	0.02
203047_at	4V	0.02		206652_at	4V	0.02
218512_at	4V	0.02		218304_s_at	4V	0.02
217871_s_at	4V	0.02		218947_s_at	4V	0.02
206848_at	4V	0.02		1553502_a_at	4V	0.02
201216_at	4V	0.02		218763_at	4V	0.02
225718_at	4V	0.02		218375_at	4V	0.02
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1555779_a_at	4V	0.02		226385_s_at	4V	0.02
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208285_at	4V	0.02		223821_s_at	4V	0.02
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204628_s_at	4V	0.02		218191_s_at	4V	0.02
228019_s_at	4V	0.02		208627_s_at	4V	0.02
1564285_at	4V	0.02		211178_s_at	4V	0.02
221377_s_at	4V	0.02		218270_at	4V	0.02
1555971_s_at	4V	0.02		220435_at	4V	0.02
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218184_at	4V	0.02		205107_s_at	4V	0.02
1555495_a_at	4V	0.02		223778_at	4V	0.02
202468_s_at	4V	0.02		223247_at	4V	0.02
214366_s_at	4V	0.02		210550_s_at	4V	0.02
223144_s_at	4V	0.02		210826_x_at	4V	0.02

" 2TJ3U6jat	1V	0.02		206472_s_at	4V	0.02
228075_x_at	4V	0.02		225523_at	4V	0.02
209450_at	4V	0.02		238488_at	4V	0.02
225945_at	4V	0.02		212034_s_at	4V	0.02
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206877_at	4V	0.02		1553390_at	4V	0.02
228017_s_at	4V	0.02		201593_s_at	4V	0.02
241394_at	4V	0.02		225528_at	4V	0.02
204809_at	4V	0.02		235410_at	4V	0.02
204411_at	4V	0.02		201488_x_at	4V	0.02
208957_at	4V	0.02		202014_at	4V	0.02
210616_s_at	4V	0.02		213014_at	4V	0.02
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1552347_at	4V	0.02		228393_s_at	4V	0.02
202315_s_at	4V	0.02		224856_at	4V	0.02
219754_at	4V	0.02		218258_at	4V	0.02
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221597_s_at	4V	0.02		201754_at	4V	0.02
223396_at	4V	0.02		65493_at	4V	0.02
214434_at	4V	0.02		230774_at	4V	0.02
214040_s_at	4V	0.02		211969_at	4V	0.02
223485_at	4V	0.02		202649_x_at	4V	0.02
203944_x_at	4V	0.02		228001_at	4V	0.02
2244 65_s_at	4V	0.02		226975_at	4V	0.02
204064_at	4V	0.02		1553852_at	4V	0.02
1554428_s_at	4V	0.02		223113_at	4V	0.02
226824_at	4V	0.02		204328_at	4V	0.02
206e27_s_at	4V	0.02		202900_s_at	4V	0.02
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1553197_at	4V	0.02		1553550_at	4V	0.02
222536_s_at	4V	0.02		200018_at	4V	0.02
205139_s_at	4V	0.02		218427_at	4V	0.02
229862_x_at	4V	0.02		209099_x_at	4V	0.02
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226295_at	4V	0.02		225625_at	4V	0.02
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239018_at	4V	0.02		220853_at	4V	0.02
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225957_at	4V	0.02		213974_at	4V	0.02
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206185_at	4V	0.02		201620__	4V	0.02
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201568_at	4V	0.02		232892__at	4V	0.02
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201858_s_at	4V	0.02
202546_at	4V	0.02
216341_s_at	4V	0.03
226487_at	4V	0.03
202810_at	4V	0.03
226629_at	4V	0.03
207056_s_at	4V	0.03
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200 944_s_at	4V	0.03
206923_at	4V	0.03
235116_at	4V	0.03
244766_at	4V	0.03
213287_s_at	4V	0.03
201630_s_at	4V	0.03
220206_at	4V	0.03
214348_at	4V	0.03
224250_s_at	4V	0.03
230172_at	4V	0.03
218357_s_at	4V	0.03
203617_x_at	4V	0.03
212673_at	4V	0.03
202848_s_at	4V	0.03
1553202_at	4V	0.03
219734_at	4V	0.03
231339_at	4V	0.03
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225088_at	4V	0.03
226378_s_at	4V	0.03
218302_at	4V	0.03
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219070_s_at	4V	0.03
219498_s_at	4V	0.03
220023_at	4V	0.03
219334_s_at	4V	0.03

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222990_at	4V	0.03		219767_s_at	4V	0.03
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227261_at	4V	0.03	208116_s_at	4V	0.03
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39318 _at	4V	0.03	208325_s_at	4V	0.03

Probe			Probe		
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1554588_a_at	4V	0.03	218511_s_at	4V	0.03
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201463_s_at	4V	0.03	201980_s_at	4V	0.03
1554/70_x_at	4V	c.03	215930_s_at	4V	0.03
203750_s_at	4V	0.03	20"254_at	4V	0.03
2 i1747_s_at	4V	0.03	218891_at	4V	0.03
20292]_s_at	4V	0.03	221090_s_at	4V	0.03
1554769_at	4V	0.03	225829_at	4V	0.03
232263_at	4V	0.03	234985_at	4V	0.03
203314_at	4V	0.03	210646_x_at	4V	0.03
210975_x_at	4V	0.03	201967_at	4V	0.03
210675_s_at	4V	0.03	220244_at	4V	0.03
20009L_s_at	4V	0.03	52164_at	4V	0.03
202968_s_at	4V	0.03	212674_s_at	4V	0.03
207684_at	4V	0.03	203391_at	4V	0.03
203484_at	4V	0.03	204178_s_at	4V	0.03
22066"_at	4V	0.03	1553863_at	4V	0.03
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2436?3_at	4V	0.03	220526_s_at	4V	0.03
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218533_s_at	4V	0.03	211964_at	4V	0.03
220460_at	4V	0.03	202483_s_at	4V	0.03
212825_at	4V	0.03	223256_at	4V	0.03
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231798_at	4V	0.03	224656_s_at	4V	0.03
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202595_s_at	5B	0.01		89948_at	5B	0.01
202450_s_at	5B	0.01		216306_x_at	5B	0.01
202746_at	5B	0.01		204875_s_at	5B	0.01
202408_s_at	5B	0.01		225505_s_at	5B	0.01
202253_s_at	5B	0.01		219915_s_at	5B	0.01
202704_at	5B	0.01		202021_x_at	5B	0.01
202802_at	5B	0.01		218936_s_at	5B	0.01
202529_at	5B	0.01		204383_at	5B	0.01
202582_s_at	5B	0.01		207543_s_at	5B	0.01
207181_s_at	5B	0.01		203605_at	5B	0.01
207098_s_at	5B	0.01		200019_s_at	5B	0.01
207196_s_at	5B	0.01		211938_at	5B	0.01
205831_at	5B	0.01		244578_at	5B	0.01
206026_s_at	5B	0.01		200663_at	5B	0.01
205539_at	5B	0.01		200009_at	5B	0.01
209004_s_at	5B	0.01		208624_s_at	5B	0.01

228332_s_at	5B	0.01		235298_at	5B	0.01
200593_s_at	5B	0.01		231775_at	5B	0.01
211594_s_at	5B	0.01		229686_at	5B	0.01
212227_x_at	5B	0.01		229450_at	5B	0.01
201174_s_at	5B	0.01		64899_at	5B	0.01
209310_s_at	5B	0.01		219574_at	5B	0.01
205690_s_at	5B	0.01		218599_at	5B	0.01
219037_at	5B	0.01		219041_s_at	5B	0.01
223886_s_at	5B	0.01		219183_s_at	5B	0.01
208652_at	5B	0.01		219079_at	5B	0.01
221381_s_at	5B	0.01		218738_s_at	5B	0.01
206734_at	5B	0.01		213539_at	5B	0.01
201113_at	5B	0.01		213902_at	5B	0.01
217216_x_at	5B	0.01		213795_s_at	5B	0.01
213209_at	5B	0.01		214705_at	5B	0.01
212995_x_at	5B	0.01		213892_s_at	5B	0.01
218611_at	5B	0.01		214315_x_at	5B	0.01
210926_at	5B	0.01		213513_x_at	5B	0.01
214605_x_at	5B	0.01		212452_x_at	5B	0.01
200059_s_at	5B	0.01		214681_at	5B	0.01
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218189_s_at	5B	0.01		218031_s_at	5B	0.01
201698_s_at	5B	0.01		218213_s_at	5B	0.01
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208024_s_at	5B	0.01		203572_s_at	5B	0.01
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201022_s_at	5B	0.01		204415_at	5B	0.01
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223226_x_at	5B	0.01		203897_at	5B	0.01
225191_at	5B	0.01		204255_s_at	5B	0.01
221952_x_at	5B	0.01		203689_s_at	5B	0.01
204495_s_at	5B	0.01		221214_s_at	5B	0.01
215758_x_at	5B	0.01		221263_s_at	5B	0.01
208746_x_at	5B	0.01		222997_s_at	5B	0.01
205673_s_at	5B	0.01		221619_s_at	5B	0.01
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201000_at	5B	0.01		222408_s_at	5B	0.01
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223296_at	5B	0.01		223209_s_at	5B	0.01
203019_x_at	5B	0.01		222490_at	5B	0.01
230753_at	5B	0.01		210886_x_at	5B	0.01
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228097_at	5B	0.01		212184_s_at	5B	0.01
209040_s_at	5B	0.01		210125_s_at	5B	0.01
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225076_s_at	5B	0.01		202345_s_at	5B	0.01
225884_s_at	5B	0.01		202430_s_at	5B	0.01
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225074_at	5B	0.01		202880_s_at	5B	0.01
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224447_s_at	5B	0.01		202961_s_at	5B	0.01

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221867 _at	5B	0.02		201597 _at	5B	0.02
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211136 _s_at	5B	0.02		209565 _at	5B	0.02
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226296_s_at	5B	0.02		202747_s_at	5B	0.02
225713_at	5B	0.02		217740_x_at	5B	0.02
219172_at	5B	0.02		208970_s_at	5B	0.02
218158_s_at	5B	0.02		217925_s_at	5B	0.02
218392_x_at	5B	0.02		206009_at	5B	0.02
202927_at	5B	0.02		211429_s_at	5B	0.02
203219_s_at	5B	0.02		225264_at	5B	0.02
207387_s_at	5B	0.02		212655_at	5B	0.02
209421_at	5B	0.02		217733_s_at	5B	0.02
205256_at	5B	0.02		224833_at	5B	0.02
201735_s_at	5B	0.02		207100_s_at	5B	0.02
209082_s_at	5B	0.02		228298_at	5B	0.02
224838_at	5B	0.02		203856_at	5B	0.02
212501_at	5B	0.02		208250_s_at	5B	0.02
211012_s_at	5B	0.02		234987_at	5B	0.02
217926_at	5B	0.02		200645_at	5B	0.02
214866_at	5B	0.02		203396_at	5B	0.02
202299_s_at	5B	0.02		219081_at	5B	0.02
220576_at	5B	0.02		225734_at	5B	0.02
218408_at	5B	0.02		225574_at	5B	0.02
208091_s_at	5B	0.02		213280_at	5B	0.02
224573_at	5B	0.02		225799_at	5B	0.02
65588_at	5B	0.02		1558534_at	5B	0.02
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219016_at	5B	0.02		203028_s_at	5B	0.02
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231008_at	5B	0.02		200748_s_at	5B	0.02
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233350_s_at	5B	0.02		204258_at	5B	0.02
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208739_x_at	5B	0.02		225649_s_at	5B	0.02
204977_at	5B	0.02		227814_at	5B	0.02

Probe				Probe		
34858 _at	5B	0.02		210164 _at	5B	0.02
227932 _at	5B	0.02		210312 _s_at	5B	0.02
228690 _s_at	5B	0.02		212063 _at	5B	0.02
236165 _at	5B	0.02		210092 _at	5B	0.02
219938 _s_at	5B	0.02		210240 _s_at	5B	0.02
218883 _s_at	5B	0.02		211417 _x_at	5B	0.02
219788 _at	5B	0.02		210793 _s_at	5B	0.02
219397 _at	5B	0.02		210213 _s_at	5B	0.02
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218715 _at	5B	0.02		212140 _at	5B	0.02
219335 _at	5B	0.02		211025 _x__at	5B	0.02
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219329 _s_at	5B	0.02		202655 _at	5B	0.02
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219045 _at	5B	0.02		202602 _s_at	5B	0.02
213535 _s_at	5B	0.02		202333 _s_at	5B	0.02
212928 _at	5B	0.02		202352 _s_at	5B	0.02
212403 _at	5B	0.02		202761 _s_at	5B	0.02
213261 _at	5B	0.02		202166 _s_at	5B	0.02
214263 _x_at	5B	0.02		202277 _at	5B	0.02
212904 _at	5B	0.02		202882 _x_at	5B	0.02
212742 _at	5B	0.02		202116 _at	5B	0.02
212268 _at	5B	0.02		203175 _at	5B	0.02
212293 _at	5B	0.02		206037 _at	5B	0.02
213134 _x_at	5B	0.02		204960 _at	5B	0.02
212561 _at	5B	0.02		205596 _s_at	5B	0.02
213526 _s_at	5B	0.02		205324 _s_at	5B	0.02
212922 _s_at	5B	0.02		205270 _s_at	5B	0.02
217933 _s_at	5B	0.02		204912 _at	5B	0.02
216032 _s_at	5B	0.02		208948 _s_at	5B	0.02
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225014_at	5B	0.03		201254_x_at	5B	0.03
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212537 _x_at	5B	0.03		202875 _s_at	5B	0.03
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212315 _s_at	5B	0.03		202777 _at	5B	0.03
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215438 _x_at	5B	0.03		208828 _at	5B	0.03
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1552519_at	5C	1.552797e-03
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242697_at	5C	2.343904e-03
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35150_at	5C	3.126152e-03
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221490_at	5C	3.865447e-03
235461_at	5C	3.905302e-03
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219236_at	5C	4.19642e-03
229269_x__at	5C	4.240477e-03
220159_at	5C	4.279007e-03

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203223_at	5D	2.731455e-03		238937_at	5D	9.70776e-03
207394_at	5D	2.881823e-03		214569_at	5D	9.70776e-03
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1560874_at	5D	3.107535e-03		220725_x_at	5D	9.70776e-03
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1560339_s_at	5D	3.300848e-03		209701_at	5D	9.70776e-03
207064_s_at	5D	3.443707e-03		208916_at	5D	9.70776e-03
231922_at	5D	3.528862e-03		1558327_at	5D	9.70776e-03
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221211_s_at	5D	3.994324e-03		1554108_at	5D	9.943459e-03
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235339_at	5E	0.04	209625_at	5E	0.04
225320_at	5E	0.04	224627_at	5E	0.04
209481_at	5E	0.04	217716_s_at	5E	0.04
211358_s_at	5E	0.04	201877_s_at	5E	0.04
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205441_at	5E	0.04	222416_at	5E	0.04
209111_at	5E	0.04	218994_s_at	5E	0.04
225173_at	5E	0.04	201502_s_at	5E	0.04
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217835_x_at	5G	0.02	221816_s_at	5G	0.03
200041_s_at	5G	0.02	200808_s_at	5G	0.03
217840_at	5G	0.02	212666_at	5G	0.03
234403_at	5G	0.02	215990_s_at	5G	0.03
218361_at	5G	0.02	204971_at	5G	0.03
202651_at	5G	0.03	212774_at	5G	0.03
210568_s_at	5G	0.03	219315_s_at	5G	0.03
200851_s_at	5G	0.03	201138_s_at	5G	0.03
201328_at	5G	0.03	224374_s_at	5G	0.03
229723_at	5G	0.03	219397_at	5G	0.03
204650_s_at	5G	0.03	213034_at	5G	0.03
203284_s_at	5G	0.03	202783_at	5G	0.03
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213402_at	5G	0.03	219034_at	5G	0.03
204122_at	5G	0.03	223081_at	5G	0.03
218474_s_at	5G	0.03	205791_x_at	5G	0.03
202535_at	5G	0.03	1553685_s_at	5G	0.03
200982_s_at	5G	0.03	218822_s_at	5G	0.03
200916_at	5G	0.03	203057_s_at	5G	0.03
223591_at	5G	0.03	207275_s_at	5G	0.03
220608_s_at	5G	0.03	214847_s_at	5G	0.03
1555643_s_at	5G	0.03	205788_s_at	5G	0.03
222768_s_at	5G	0.03	217620_s_at	5G	0.03
214720_x_at	5G	0.03	220935_s_at	5G	0.03
201849_at	5G	0.03	241490_s_at	5G	0.03
32069_at	5G	0.03	226111_s_at	5G	0.03
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206949_s_at	5G	0.03	212192_at	5G	0.03
201957_at	5G	0.03	1554334_a_at	5G	0.03

`2r4 868-1 at`	5G	0.73		212293 _at	5G	0.03
204435 _at	5G	0.03		204781 _s_at	5G	0.03
201736 _s_at	5G	0.03		205206 _at	5G	0.03
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204283 _at	5G	0.03		205861 _at	5G	0.03
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221820 _s_at	5G	0.03		200966 _x_at	5G	0.03
207622 _s_at	5G	0.03		209841 _s_at	5G	0.03
1553567 _s_at	5G	0.03		201924 _at	5G	0.03
201765 _s_at	5G	0.03		221698 _s_at	5G	0.03
222821 _s_at	5G	0.03		201178 _at	5G	0.03
201590 _x_at	5G	0.03		224369 _s_at	5G	0.03
212381 _at	5G	0.03		213623 _at	5G	0.03
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201967 _at	5G	0.03		117_at	5G	0.03
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225475 _at	5G	0.03		222476 _at	5G	0.03
215260 _s_at	5G	0.03		223460 _at	5G	0.03
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232899 _at	5G	0.03		212363 _x_at	5G	0.03
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200600 _at	5G	0.03		201745 _at	5G	0.03
211383 _s_at	5G	0.03		218940 _at	5G	0.03
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208093 _s_at	5G	0.03		225283 _at	5G	0.03
209790 _s_at	5G	0.03		221558 _s_at	5G	0.03
201384 _s_at	5G	0.03		200882 _s_at	5G	0.03
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205198 _s_at	5G	0.03		209110 _s_at	5G	0.03
228075 _x_at	5G	0.03		208943 _s_at	5G	0.03
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226394 _at	5G	0.03		226076 _s_at	5G	0.03
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225287 _s_at	5G	0.03		237099 _at	5G	0.03
220610 _s_at	5G	0.03		217388 _s_at	5G	0.03
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40420 _at	5G	0.03		204470 _at	5G	0.04
217916 _s_at	5G	0.03		239660 _at	5G	0.04
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200838 _at	5G	0.03		207113 _s_at	5G	0.04
225661 _at	5G	0.03		218139 _s_at	5G	0.04
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222231 _s_at	5G	0.03		221666 _s_at	5G	0.04
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228424 _at	5G	0.03		34031 _i_at	5G	0.04
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205474	_at	5G	0.04	201889	_at	5G	0.04
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203206_at	5G	0.04
238662_at	5G	0.04
238678_at	5G	0.04
207098_s_at	5G	0.04
215452_x_at	5G	0.04
203750_s_at	5G	0.04
213160_at	5G	0.04
218058_at	5G	0.04
219734_at	5G	0.04
203968_s_at	5G	0.04
201972_at	5G	0.04
223342_at	5G	0.04
225056_at	5G	0.04
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203379_at	5G	0.04
212860_at	5G	0.04
213173_at	5G	0.04
212242_at	5G	0.04
225876_at	5G	0.04
201234_at	5G	0.04
219178_at	5G	0.04
208238_x_at	5G	0.04
201385_at	5G	0.04
213798_s_at	5H	4.13e-05

212264 _at	5H	4.31e-05
224369 _s_at	5H	6.68e-05
216071 _x_at	5H	7.37e-05
232486 _at	5H	7.83e-05
202814 _s_at	5H	8.29e-05
222311 _s_at	5H	1.12e-04
225273	5H	1.16e-04
212748 _at	5H	1.17e-04
219382 _at	5H	1.3e-04
213881 _x_at	5H	1.62e-04
203029 _s_at	5H	1.65e-04
211342 _x_at	5H	1.67e-04
223082 _at	5H	1.71e-04
225364 _at	5H	1.78e-04
221582 _at	5H	1.85e-04
209605 _at	5H	1.93e-04
200632 _s_at	5H	2.07e-04
212718 _at	5H	2.37e-04
212014 _x_at	5H	2.45e-04
217718 _s_at	5H	2.51e-04
209879 _at	5H	2.65e-04
201484 _at	5H	2.68e-04
209083 _at	5H	2.73e-04
203104	5H	2.76e-04
201136 _at	5H	2.84e-04
208598 _s_at	5H	2.9e-04
230243 _at	5H	2.91e-04
204735 _at	5H	3.05e-04
204971 _at	5H	3.19e-04
200625 _s_at	5H	3.25e-04
219952 _s_at	5H	3.41e-04
218530 _at	5H	3.45e-04
203186 _s_at	5H	3.47e-04
211759 _x_at	5H	3.58e-04
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200794 _x_at	5H	3.65e-04
224492 _s_at	5H	3.7e-04
224585 _x_at	5H	3.7e-04
226659 _at	5H	3.7e-04
224825 _at	5H	3.7e-04
224586 _x_at	5H	3.7e-04
223792 _at	5H	3.7e-04
223819 _x_at	5H	3.7e-04
224748 _at	5H	3.7e-04
226820 _at	5H	3.7e-04
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225374 _at	5H	3.7e-04
225707 _at	5H	3.7e-04
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224796 _at	5H	3.7e-04
227195 _at	5H	3.7e-04
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223880 _x_at	5H	3.7e-04
226042 _at	5H	3.7e-04
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224783 _at	5H	3.7e-04
225980 _at	5H	3.7e-04
227046 _at	5H	3.7e-04

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47105 _at	5H	3.7e-04
46270 _at	5H	3.7e-04
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212566 _at	5H	3.7e-04
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213133 _s_at	5H	3.7e-04
215000 _s_at	5H	3.7e-04
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212669 _at	5H	3.7e-04
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213513 _x_at	5H	3.7e-04
217949 _s_at	5H	3.7e-04
218431 _at	5H	3.7e-04
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218240 _at	5H	3.7e-04

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217728_at	5H	3.7e-04		210784_x_at	5H	3.7e-04
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217869_at	5H	3.7e-04		211509_s_at	5H	3.7e-04
218434_s_at	5H	3.7e-04		210966_x_at	5H	3.7e-04
217853_at	5H	3.7e-04		209667_at	5H	3.7e-04
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218091_at	5H	3.7e-04		210314_x_at	5H	3.7e-04
217794_at	5H	3.7e-04		210648_x_at	5H	3.7e-04
217232_x_at	5H	3.7e-04		209458_x_at	5H	3.7e-04
217769_s_at	5H	3.7e-04		211135_x_at	5H	3.7e-04
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203530_s_at	5H	3.7e-04		202924_s_at	5H	3.7e-04
204858_s_at	5H	3.7e-04		202313_at	5H	3.7e-04
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204768_s_at	5H	3.7e-04		202388_at	5H	3.7e-04
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203984_s_at	5H	3.7e-04		202443_x_at	5H	3.7e-04
204804_at.	5H	3.7e-04		203110_at	5H	3.7e-04
204279_at	5H	3.7e-04		202307_s_at	5H	3.7e-04
203973_s_at	5H	3.7e-04		202185_at	5H	3.7e-04
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204280_at	5H	3.7e-04		202664_at	5H	3.7e-04
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223377_x_at	5H	3.7e-04		202897_at	5H	3.7e-04
223025_s_at	5H	3.7e-04		202943_s_at	5H	3.7e-04
221864_at	5H	3.7e-04		202295_s_at	5H	3.7e-04
222887_s_at	5H	3.7e-04		203127_s_at	5H	3.7e-04
221581_s_at	5H	3.7e-04		202116_at	5H	3.7e-04
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222752_s_at	5H	3.7e-04		206158_s_at	5H	3.7e-04
221875_x_at	5H	3.7e-04		207168_s_at	5H	3.7e-04
221059_s_at	5H	3.7e-04		204908_s_at	5H	3.7e-04
222231_s_at	5H	3.7e-04		206860_s_at	5H	3.7e-04
222024_s_at	5H	3.7e-04		207163_s_at	5H	3.7e-04
222143_s_at	5H	3.7e-04		207243_s_at	5H	3.7e-04
221058_s_at	5H	3.7e-04		205180_s_at	5H	3.7e-04
221474_at	5H	3.7e-04		205986_at	5H	3.7e-04
223065_s_at	5H	3.7e-04		207320_x_at	5H	3.7e-04
211417_x_at	5H	3.7e-04		206662_at	5H	3.7e-04
211970_x_at	5H	3.7e-04		205382_s_at	5H	3.7e-04
211911_x_at	5H	3.7e-04		207131_x_at	5H	3.7e-04
211378_x_at	5H	3.7e-04		205887_x_at	5H	3.7e-04

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207440 _at	5H	3.7e-04	
208961 _s_at	5H	3.7e-04	
208946 _s_at	5H	3.7e-04	
208660 _at	5H	3.7e-04	
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208919 _s_at	5H	3.7e-04	
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207966 _s_at	5H	3.7e-04	
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208825 _x_at	5H	3.7e-04	
208864 _s_at	5H	3.7e-04	
208759 _at	5H	3.7e-04	
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208101 _s_at	5H	3.7e-04	
207760 _s_at	5H	3.7e-04	
208703 _s_at	5H	3.7e-04	
208640 _at	5H	3.7e-04	
208270 _s_at	5H	3.7e-04	
208112 _x_at	5H	3.7e-04	
208704 _x_at	5H	3.7e-04	
208306 _x_at	5H	3.7e-04	
208702 _x_at	5H	3.7e-04	
209275 _s_at	5H	3.7e-04	
209205 _s_at	5H	3.7e-04	
207556 _s_at	5H	3.7e-04	
209043 _at	5H	3.7e-04	
207630 _s_at	5H	3.7e-04	
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200743 _s_at	5H	3.7e-04	
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200021 _at	5H	3.7e-04	
200797 _s_at	5H	3.7e-04	
200718 _s_at	5H	3.7e-04	
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1552501 _a_at	5H	3.7e-04	
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200039 _s_at	5H	3.7e-04	
200714 _x_at	5H	3.7e-04	
1553186 _x_at	5H	3.7e-04	
200822 _x_at	5H	3.7e-04	
200678 _x_at	5H	3.7e-04	
1554503 _a_at	5H	3.7e-04	
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201643 _x_at	5H	3.7e-04	
201270 _x_at	5H	3.7e-04	
201087 _at	5H	3.7e-04	
200996 _at	5H	3.7e-04	
201999 _s_at	5H	3.7e-04	
201170 _s_at	5H	3.7e-04	
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200871 _s_at	5H	3.7e-04	
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201760 _s_at	5H	3.7e-04	

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201190 _s_at	5H	3.7e-04	
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201908 _at	5H	3.7e-04	
201743 _at	5H	3.7e-04	
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203652 _at	5H	7.39e-04	
204806 _x_at	5H	7.43e-04	
222212 _s_at	5H	7.43e-04	
227999 _at	5H	7.48e-04	
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221820 _s_at	5H	7.54e-04	
1554173 _at	5H	7.74e-04	
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219371 _s_at	5H	8.09e-04	
230563 _at	5H	8.28e-04	
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91684 _g_at	5H	8.64e-04	
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203528 _at	5H	8.75e-04	
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202545 _at	5H	8.9e-04	
209044 _x_at	5H	8.95e-04	
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201544 _x_at	5H	9.6e-04	

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206956_at	5H	1.225395e-03	214449_s_at	5H	1.476515e-03
220486_x_at	5H	1.278237e-03	212860_at	5H	1.476515e-03
1553570_x_at	5H	1.286378e-03	214430_at	5H	1.476515e-03
214181_x_at	5H	1.291685e-03	213095_x_at	5H	1.476515e-03
205212_s_at	5H	1.296395e-03	212861_at	5H	1.476515e-03
1563674_at	5H	1.313889e-03	212518_at	5H	1.476515e-03
207416_s_at	5H	1.319359e-03	212869_x_at	5H	1.476515e-03
202910_s_at	5H	1.333828e-03	213360_s_at	5H	1.476515e-03
202592_at	5H	1.375647e-03	212737_at	5H	1.476515e-03
201010_s_at	5H	1.401498e-03	212969_x_at	5H	1.476515e-03
209850_s_at	5H	1.402899e-03	212948_at	5H	1.476515e-03
217872_at	5H	1.40979e-03	212359_s_at	5H	1.476515e-03
219104_at	5H	1.411468e-03	213708_s_at	5H	1.476515e-03
223033_s_at	5H	1.421944e-03	214438_at	5H	1.476515e-03
203175_at	5H	1.426034e-03	212363_x_at	5H	1.476515e-03
244498_x_at	5H	1.435389e-03	212334_at	5H	1.476515e-03
212576_at	5H	1.442717e-03	213084_x_at	5H	1.476515e-03
201201_at	5H	1.445458e-03	213491_x_at	5H	1.476515e-03
204265_s_at	5H	1.44919e-03	214629_x_at	5H	1.476515e-03
225394_s_at	5H	1.476515e-03	212665_at	5H	1.476515e-03
227131_at	5H	1.476515e-03	213526_s_at	5H	1.476515e-03
224768_at	5H	1.476515e-03	212501_at	5H	1.476515e-03
225558_at	5H	1.476515e-03	217844_at	5H	1.476515e-03
224916_at	5H	1.476515e-03	218301_at	5H	1.476515e-03
224564_s_at	5H	1.476515e-03	218134_s_at	5H	1.476515e-03
226300_at	5H	1.476515e-03	217947_at	5H	1.476515e-03
223993_s_at	5H	1.476515e-03	217817_at	5H	1.476515e-03
225763_at	5H	1.476515e-03	218290_at	5H	1.476515e-03
224785_at	5H	1.476515e-03	217993_s_at	5H	1.476515e-03
225602_at	5H	1.476515e-03	217962_at	5H	1.476515e-03
226554_at	5H	1.476515e-03	217733_s_at	5H	1.476515e-03
225309_at	5H	1.476515e-03	217910_x_at	5H	1.476515e-03
225403_at	5H	1.476515e-03	218322_s_at	5H	1.476515e-03
226956_at	5H	1.476515e-03	218035_s_at	5H	1.476515e-03
224656_s_at	5H	1.476515e-03	215884_s_at	5H	1.476515e-03
223692_at	5H	1.476515e-03	217977_at	5H	1.476515e-03
225502_at	5H	1.476515e-03	217883_at	5H	1.476515e-03
239196_at	5H	1.476515e-03	218384_at	5H	1.476515e-03
230925_at	5H	1.476515e-03	217868_s_at	5H	1.476515e-03
51200_at	5H	1.476515e-03	217855_x_at	5H	1.476515e-03
230259_at	5H	1.476515e-03	218198_at	5H	1.476515e-03
234725_s_at	5H	1.476515e-03	217772_s_at	5H	1.476515e-03
31845_at	5H	1.476515e-03	215633_x_at	5H	1.476515e-03
228089_x_at	5H	1.476515e-03	204513_s_at	5H	1.476515e-03

204336_s_at	5H	1.476515e-03		209901 _x_at	5H	1.476515e-03
203579_s_at	5H	1.476515e-03		211742 _s_at	5H	1.476515e-03
204613_at	5H	1.476515e-03		211961 _s_at	5H	1.476515e-03
203506_s_at	5H	1.476515e-03		211581 _x_at	5H	1.476515e-03
204007_at	5H	1.476515e-03		211833 _s_at	5H	1.476515e-03
203332_s_at	5H	1.476515e-03		210878 _s_at	5H	1.476515e-03
203693_s_at	5H	1.476515e-03		210629 _x_at	5H	1.476515e-03
204563_at	5H	1.476515e-03		209534 _x_at	5H	1.476515e-03
203371_s_at	5H	1.476515e-03		212024 _x_at	5H	1.476515e-03
204158_s_at	5H	1.476515e-03		211661 _x_at	5H	1.476515e-03
204789_at	5H	1.476515e-03		202535 _at	5H	1.476515e-03
204122_at	5H	1.476515e-03		202215 _s_at	5H	1.476515e-03
203298_s_at	5H	1.476515e-03		202944 _at	5H	1.476515e-03
203734_at	5H	1.476515e-03		202343 _x_at	5H	1.476515e-03
203591_s_at	5H	1.476515e-03		202605 _at	5H	1.476515e-03
203891_s_at	5H	1.476515e-03		202573 _at	5H	1.476515e-03
203729_at	5H	1.476515e-03		202298 _at	5H	1.476515e-03
203761_at	5H	1.476515e-03		202117 _at	5H	1.476515e-03
204828_at	5H	1.476515e-03		202110 _at	5H	1.476515e-03
204018_x_at	5H	1.476515e-03		202281 _at	5H	1.476515e-03
204157_s_at	5H	1.476515e-03		202671 _s_at	5H	1.476515e-03
203553_s_at	5H	1.476515e-03		202334 _s_at	5H	1.476515e-03
203455_s_at	5H	1.476515e-03		202856 _s_at	5H	1.476515e-03
203831_at	5H	1.476515e-03		202681 _at	5H	1.476515e-03
203879_at	5H	1.476515e-03		202801 _at	5H	1.476515e-03
204072_s_at	5H	1.476515e-03		203139 _at	5H	1.476515e-03
203556_at	5H	1.476515e-03		202181 _at	5H	1.476515e-03
223387_at	5H	1.476515e-03		202807 _s_at	5H	1.476515e-03
222821 _s_at	5H	1.476515e-03		202149 _at	5H	1.476515e-03
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222017 _x_at	5H	1.4765158-03		203109 _at	5H	1.476515e-03
221718 _s_at	5H	1 .476515e-03		202043 _s_at	5H	1.476515e-03
22317 9_at	5H	1.476515e-03		202917 _s_at	5H	1.476515e-03
221080 _s_at	5H	1.476515e-03		203094 _at	5H	1.476515e-03
223394 _at	5H	1.476515e-03		206207 _at	5H	1.476515e-03
221495 _s_at	5H	1.476515e-03		205462 _s_at	5H	1.476515e-03
221486 _at	5H	1.476515e-03		205025 _at	5H	1.476515e-03
222732 _at	5H	1.476515e-03		207351 _s_at	5H	1.476515e-03
223037 _at	5H	1.476515e-03		206082 _at	5H	1.476515e-03
220532 _s_at	5H	1.476515e-03		205859 _at	5H	1.476515e-03
221021 _s_at	5H	1.476515e-03		204912 _at	5H	1.476515e-03
222788 _s_at	5H	1.476515e-03		205237 _at	5H	1.476515e-03
221565 _s_at	5H	1.476515e-03		204946 _s_at	5H	1.476515e-03
221904 _at	5H	1.476515e-03		205474 _at	5H	1.476515e-03
223416 _at	5H	1.476515e-03		206687 _s_at	5H	1.476515e-03
223144 _s_at	5H	1.476515e-03		205367 _at	5H	1.476515e-03
220944 _at	5H	1.476515e-03		205315 _s_at	5H	1.476515e-03
222495 _at	5H	1.476515e-03		205090 _s_at	5H	1.476515e-03
221579 _s_at	5H	1.476515e-03		204959 _at	5H	1.476515e-03
211765 _x_at	5H	1.476515e-03		205566 _at	5H	1.476515e-03
211978 _x_at	5H	1.476515e-03		205147 _x_at	5H	1.476515e-03
211429 _s_at	5H	1.476515e-03		205633 _s_at	5H	1.476515e-03
212081 _x_at	5H	1.476515e-03		209384 _at	5H	1.476515e-03
211926 _s_at	5H	1.476515e-03		207783 _x_at	5H	1.476515e-03
210023 _s_at	5H	1.476515e-03		208870 _x_at	5H	1.476515e-03
211101 _x_at	5H	1.476515e-03		208770 _s_at	5H	1.476515e-03
211178 _s_at	5H	1.476515e-03		209350 _s_at	5H	1.476515e-03
210213 _s_at	5H	1.476515e-03		208834 _x_at	5H	1.476515e-03
211250 _s_at	5H	1.476515e-03		209116 _x_at	5H	1.476515e-03
210225 _x_at	5H	1.476515e-03		208729 _x_at	5H	1.476515e-03
211256 _x_at	5H	1.476515e-03		209185 _s_at	5H	1.476515e-03
209896 _s_at	5H	1.476515e-03		208374 _s_at	5H	1.476515e-03
212100 _s_at	5H	1.476515e-03		207890 _s_at	5H	1.476515e-03
210740 _s_at	5H	1.476515e-03		208438 _s_at	5H	1.476515e-03

208466 _at	5H	1.4651Te-03	209102 _s_at	5H	1.661973e-03
208092 _s_at	5H	1.476515e-03	206437 _at	5H	1.695689e-03
207857 _at	5H	1.476515e-03	201012 _at	5H	1.72219e-03
209184 _s_at	5H	1.476515e-03	213083 _at	5H	1.72244e-03
209029 _at	5H	1.476515e-03	204252 _at	5H	1.78859e-03
209148 _at	5H	1.476515e-03	222477 _s_at	5H	1.808617e-03
208763 _s_at	5H	1.476515e-03	218581 _at	5H	1.809304e-03
208892 _s_at	5H	1.476515e-03	200645 _at	5H	1.841038e-03
208812 _x_at	5H	1.476515e-03	202670 _at	5H	1.921288e-03
1553685 _s_at	5H	1.476515e-03	203825 _at	5H	1.943548e-03
1553693 _s_at	5H	1.476515e-03	208056 _s_at	5H	1.955047e-03
1554624 _a_at	5H	1.476515e-03	1552480 _s_at	5H	1.960625e-03
200706 _s_at	5H	1.476515e-03	200796 _s_at	5H	1.973468e-03
200673 _at	5H	1.476515e-03	208728 _s_at	5H	1.977546e-03
200830 _at	5H	1.476515e-03	223305 _at	5H	2.043576e-03
1294 _at	5H	1.476515e-03	1553538 _s_at	5H	2.051763e-03
200765 _x_at	5H	1.476515e-03	203167 _at	5H	2.05806e-03
200668 _s_at	5H	1.476515e-03	202253 _s_at	5H	2.110425e-03
1555735 _a_at	5H	1.476515e-03	215158 _s_at	5H	2.120023e-03
200663 _at	5H	1.476515e-03	203021 _at	5H	2.12544e-03
200738 _s_at	5H	1.476515e-03	203028 _s_at	5H	2.127682e-03
1552664 _at	5H	1.476515e-03	208891 _at	5H	2.14592e-03
1553297 _a_at	5H	1.476515e-03	228500 _at	5H	2.149226e-03
1554168 _a_at	5H	1.476515e-03	208799 _at	5H	2.242109e-03
200766 _at	5H	1.476515e-03	209158 _s_at	5H	2.24661e-03
200709 _at	5H	1.476515e-03	200741 _s_at	5H	2.272372e-03
1553588 _at	5H	1.476515e-03	200966 _x_at	5H	2.278857e-03
201500 _s_at	5H	1.476515e-03	38918 _at	5H	2.294196e-03
201696 _at	5H	1.476515e-03	216304 _x_at	5H	2.324379e-03
200911 _s_at	5H	1.476515e-03	222516 _at	5H	2.343346e-03
201377 _at	5H	1.476515e-03	201429 _s_at	5H	2.36458e-03
201716 _at	5H	1.476515e-03	204494 _s_at	5H	2.366111e-03
201786 _s_at	5H	1.476515e-03	212140 _at	5H	2.377205e-03
201527 _at	5H	1.476515e-03	235923 _at	5H	2.392008e-03
200886 _s_at	5H	1.476515e-03	201804 _x_at	5H	2.421268e-03
201089 _at	5H	1.476515e-03	201349 _at	5H	2.437744e-03
201379 _s_at	5H	1.476515e-03	200712 _s_at	5H	2.444697e-03
201601 _x_at	5H	1.476515e-03	217840 _at	5H	2.450479e-03
201899 _s_at	5H	1.476515e-03	200634 _at	5H	2.46495e-03
201883 _s_at	5H	1.476515e-03	223081 _at	5H	2.46946e-03
201220 _x_at	5H	1.476515e-03	200011 _s_at	5H	2.475816e-03
201642 _at	5H	1.476515e-03	201526 _at	5H	2.517346e-03
200960 _x_at	5H	1.476515e-03	203047 _at	5H	2.522455e-03
201739 _at	5H	1.476515e-03	211404 _s_at	5H	2.556026e-03
200964 _at	5H	1.476515e-03	206949 _s_at	5H	2.583613e-03
201494 _at	5H	1.476515e-03	220956 _s_at	5H	2.655014e-03
201350 _at	5H	1.476515e-03	211065 _x_at	5H	2.661223e-03
201692 _at	5H	1.476515e-03	203068 _at	5H	2.679023e-03
201105 _at	5H	1.476515e-03	221619 _s_at	5H	2.686843e-03
200948 _at	5H	1.476515e-03	210427 _x_at	5H	2.721593e-03
201483 _s_at	5H	1.476515e-03	203643 _at	5H	2.743612e-03
200916 _at	5H	1.476515e-03	211043 _s_at	5H	2.75982e-03
200945 _s_at	5H	1.476515e-03	218414 _s_at	5H	2.775157e-03
201140 _s_at	5H	1.476515e-03	217943 _s_at	5H	2.785417e-03
201234 _at	5H	1.476515e-03	213646 _x_at	5H	2.794618e-03
200932 _s_at	5H	1.476515e-03	201119 _s_at	5H	2.834603e-03
201717 _at	5H	1.476515e-03	223132 _]s_at	5H	2.84567e-03
243750 _x_at	5H	1.478026e-03	208928 _at	5H	2.847309e-03
218223 _s_at	5H	1.479659e-03	200055 _at	5H	2.867927e-03
202492 _at	5H	1.584949e-03	211416 _x_at	5H	2.921894e-03
204022 _at	5H	1.597551e-03	223474 _at	5H	2.937855e-03
1553993 _s_at	5H	1.614308e-03	205301 _s_at	5H	2.94622e-03
203012 _x_at	5H	1.635413e-03	218880 _at	5H	2.972246e-03
206649 _s_at	5H	1.65318e-03	49329 _at	5H	2.975236e-03

221*1162*s_at	5H	2.939.299-Te-03	218753 _at	5H	3.916322e-03
203781 _at	5H	3.016506e-03	215952 _s_at	5H	3.93714e-03
208829 _at	5H	3.040042e-03	224651 _at	5H	3.937704e-03
200611 _s_at	5H	3.044693e-03	217806 _s_at	5H	3.947379e-03
200721 _s_at	5H	3.050361e-03	226630 _at	5H	3.992608e-03
222995 _s_at	5H	3.062876e-03	218364 _at	5H	4.003427e-03
201590 _x_at	5H	3.083101e-03	218251 _at	5H	4.020353e-03
223024 _at	5H	3.09997e-03	223482 _at	5H	4.024385e-03
217478 _s_at	5H	3.106696e-03	1553569 _at	5H	4.026166e-03
211995 _x_at	5H	3.12535e-03	206138 _s_at	5H	4.032197e-03
218831 _s_at	5H	3.128917e-03	201859 _at	5H	4.051128e-03
209380 _s_at	5H	3.161945e-03	219933 _at	5H	4.064344e-03
219988 _s_at	5H	3.167843e-03	204923 _at	5H	4.065519e-03
201954 _at	5H	3.173862e-03	225315 _at	5H	4.094947e-03
220015 _at	5H	3.178883e-03	218845 _at	5H	4.107748e-03
209852 _x_at	5H	3.186534e-03	223152 _at	5H	4.115325e-03
222867 _s_at	5H	3.230613e-03	200600 _at	5H	4.11612e-03
224920 _x_at	5H	3.230619e-03	201864 _at	5H	4.119392e-03
211716 _x_at	5H	3.246724e-03	202469 _s_at	5H	4.133154e-03
202039 _at	5H	3.266421e-03	213045 _at	5H	4.135242e-03
201319 _at	5H	3.280975e-03	218389 _s_at	5H	4.137371e-03
206592 _s_at	5H	3.327841e-03	201315 _x_at	5H	4.138459e-03
1555889 _a_at	5H	3.333763e-03	202102 _s_at	5H	4.138817e-03
234919 _s_at	5H	3.334616e-03	216526 _x_at	5H	4.152e-03
204206 _at	5H	3.432991e-03	1555811 _at	5H	4.172558e-03
205172 _x_at	5H	3.434254e-03	200031 _s_at	5H	4.195934e-03
204209 _at	5H	3.442004e-03	212714 _at	5H	4.197584e-03
200882 _s_at	5H	3.444614e-03	225637 _at	5H	4.204851e-03
58916 _at	5H	3.44728e-03	224626 _at	5H	4.204851e-03
200867 _at	5H	3.467121e-03	225498 _at	5H	4.204851e-03
203509 _at	5H	3.468102e-03	225524 _at	5H	4.204851e-03
200746 _s_at	5H	3.473032e-03	224511 _s_at	5H	4.204851e-03
203090 _at	5H	3.475488e-03	225649 _s_at	5H	4.204851e-03
202682 _s_at	5H	3.478629e-03	225693 _s_at	5H	4.204851e-03
224447 _s_at	5H	3.486411e-03	225414 _at	5H	4.204851e-03
222065 _s_at	5H	3.490721e-03	224625 _x_at	5H	4.204851e-03
223150 _s_at	5H	3.508412e-03	224573 _at	5H	4.204851e-03
216194 _s_at	5H	3.529488e-03	224479 _s_at	5H	4.204851e-03
40420 _at	5H	3.540471e-03	225618 _at	5H	4.204851e-03
217732 _s_at	5H	3.555335e-03	225404 _at	5H	4.204851e-03
214853 _s_at	5H	3.595018e-03	224578 _at	5H	4.204851e-03
219547 _at	5H	3.626486e-03	225646 _at	5H	4.204851e-03
202803 _s_at	5H	3.630412e-03	224562 _at	5H	4.204851e-03
215313 _x_at	5H	3.634367e-03	224977 _at	5H	4.204851e-03
209054 _s_at	5H	3.662206e-03	226752 _at	5H	4.204851e-03
201082 _s_at	5H	3.664313e-03	225133 _at	5H	4.204851e-03
43544 _at	5H	3.666506e-03	223609 _at	5H	4.204851e-03
224988 _at	5H	3.671126e-03	226306 _at	5H	4.204851e-03
212661 _x_at	5H	3.68701e-03	226298 _at	5H	4.204851e-03
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205081 _at	5H	3.692935e-03	226314 _at	5H	4.204851e-03
227466 _at	5H	3.721951e-03	224707 _at	5H	4.204851e-03
211940 _x_at	5H	3.723167e-03	226761 _at	5H	4.204851e-03
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201346 _at	5H	3.794679e-03	224963 _at	5H	4.204851e-03
218972 _at	5H	3.809121e-03	226691 _at	5H	4.204851e-03
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220326 _s_at	5H	3.847314e-03	227811 _at	5H	4.204851e-03
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"22'Mi δ at	5H	4 r2 0 4 851e-03	
225849 _s_at	5H	4.204851e-03	
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203547	_at	5H	4.204851e-03	210418	_s_at	5H	4.204851e-03
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222804	_x_at	5H	4.204851e-03	202160	_at	5H	4.204851e-03
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223053	_x_at	5H	4.204851e-03	203045	_at	5H	4.204851e-03
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206095 _s_at	5H	5.236653e-03
209761 _s_at	5H	5.25896e-03
AFFX-HSAC07/		
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201676 _x_at	5H	5.293918e-03
202611 "s_at	5H	5.314152e-03
204407 jat	5H	5.342017e-03
201157 "s_at	5H	5.466996e-03
225043 "at	5H	5.478715e-03
225058 _at	5H	5.518419e-03
222915 _s_at	5H	5.549285e-03
200890 _s_at	5H	5.713964e-03
218129 _s_at	5H	6.065943e-03
213064 _at	5H	6.343167e-03
200684 _s_at	5H	6.431206e-03
208994 _s_at	5H	6.495645e-03
204689 _at	5H	6.591343e-03
202599 _s_at	5H	6.689945e-03
214736 _s_at	5H	6.704885e-03
226448 _at	5H	6.8259e-03
201385 _at	5H	7.167109e-03
227100 _at	5H	7.173906e-03
208815 _x_at	5H	7.293509e-03
212833 _at	5H	7.3307e-03
32099 _at	5H	7.399579e-03
214196 _s_at	5H	7.594095e-03
229510 _at	5H	7.667683e-03
233819 _s_at	5H	7.860771e-03
201933 _at	5H	7.930456e-03
205608 _s_at	5H	8.037387e-03
91682 _at	5H	8.182206e-03
202675 _at	5H	8.205811e-03
221419 _s_at	5H	8.307014e-03
221808 _at	5H	8.595504e-03
218570 _at	5H	8.81458e-03
203113 __s_at	5H	8.81582e-03
211097 _s_at	5H	8.85893e-03
200654 _at	5H	8.918234e-03
217371 _s_at	5H	8.991858e-03
206110 _at	5H	9.079478e-03
1552942 _at	5H	9.253123e-03
211133 _x_at	5H	9.254602e-03
121 _at	5H	9.280429e-03
204634 _at	5H	9.320938e-03
217377 _x_at	5H	9.334989e-03
221782 _at	5H	9.409078e-03
210395 _x_at	5H	9.591381e-03
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222394 _at	5H	0.01
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1559942 _at	5H	0.01
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222587 _s_at	5H	0.01
204190 _at	5H	0.01
202747 _s_at	5H	0.01
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202880 _s_at	5H	0.01
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207697 _x_at	5H	0.01
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222613 _at	5H	0.01
201369 _s_at	5H	0.01
200817_x _at	5H	0.01
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208819 _at	5H	0.01
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218147 _s_at	5H	0.01
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200682 _s_at	5H	0.01
218716 _x_at	5H	0.01
235507 _at	5H	0.01
226642 _s_at	5H	0.01
217985 _s_at	5H	0.01
218989 _x_at	5H	0.01
223014 _at	5H	0.01
213046 _at	5H	0.01
217746 _s_at	5H	0.01
209760 _at	5H	0.01
200828 _s_at	5H	0.01
201376 _s_at	5H	0.01
202918 _s_at	5H	0.01
213039 _at	5H	0.01
211783 _s_at	5H	0.01
226330 _s_at	5H	0.01
209007 _s_at	5H	0.01
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210371 _s_at	5H	0.01
208910 _s_at	5H	0.01
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224900 _at	5H	0.01
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201534 _s_at	5H	0.01		204351 _at	5H	0.02
200737 _at	5H	0.01		212904 _at	5H	0.02
201783 _s_at	5H	0.01		225081 _s_at	5H	0.02
216652 _s_at	5H	0.01		219690 _at	5H	0.02
200802 _at	5H	0.01		210504 _at	5H	0.02
208742 _s_at	5H	0.01		202355 _s_at	5H	0.02
226230 _at	5H	0.01		218018 _at	5H	0.02
202583 _s_at	5H	0.01		218649 _x_at	5H	0.02
221509 _at	5H	0.01		220368 _s_at	5H	0.02
202659 _at	5H	0.01		202757 _at	5H	0.02
202173 _s_at	5H	0.01		209188 _x_at	5H	0.02
219165 _at	5H	0.01		201584 _s_at	5H	0.02
221437 _s_at	5H	0.01		203401 _at	5H	0.02
203258 _at	5H	0.01		208997 _s_at	5H	0.02
225614 _at	5H	0.01		202779 _s_at	5H	0.02
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201967 _at	5H	0.01		202915 _s_at	5H	0.02
221744 _at	5H	0.01		218298 _s_at	5H	0.02
201475 _x_at	5H	0.01		224859 _at	5H	0.02
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222473 _s_at	5H	0.01		218454 _at	5H	0.02
219402 _s_at	5H	0.02		204203 _at	5H	0.03
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235388 _at	5H	0.02		242139 _s_at	5H	0.03
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218724 _s_at	5H	0.02		203741 _s_at	5H	0.03
201231 _s_at	5H	0.02		215236 _s_at	5H	0.03
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225819 _at	5H	0.02		211521 _s_at	5H	0.03
71933 _at	5H	0.02		1559883 _s_at	5H	0.03
1554770 _x_at	5H	0.02		203239 _s_at	5H	0.03
219105 _x_at	5H	0.02		205707 _at	5H	0.03
226283 _at	5H	0.02		204164 _at	5H	0.03
212006 _at	5H	0.02		214369 _s_at	5H	0.03
201079 _at	5H	0.02		200004 _at	5H	0.03
201216 _at	5H	0.02		222975 _s_at	5H	0.03
200881 _s_at	5H	0.02		233467 _s_at	5H	0.03
218740 _s_at	5H	0.02		205690 _s_at	5H	0.03
235327 _x_at	5H	0.02		200033 _at	5H	0.03
207791 _s_at	5H	0.02		201257 _x_at	5H	0.03
219206 _x_at	5H	0.02		223283 _s_at	5H	0.03
220661 _s_at	5H	0.02		204848 _x_at	5H	0.03
223011 _s_at	5H	0.02		217724 _at	5H	0.03
210705 _s_at	5H	0.02		218919 _at	5H	0.03
236027 _at	5H	0.02		213957 _s_at	5H	0.03
201784 _s_at	5H	0.02		203513 _at	5H	0.03
209134 _s_at	5H	0.02		200853 _at	5H	0.03
209069 _s_at	5H	0.02		231540 _at	5H	0.03
217978 _s_at	5H	0.02		208720 _s_at	5H	0.03
200674 _s_at	5H	0.02		201950 _x_at	5H	0.03
225361 _x_at	5H	0.02		AFFX-HUMGAPDH/ M33197	5H	0.03
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208692 _at	5H	0.02		223637 _s_at	5H	0.03
212160 _at	5H	0.02		226994 _at	5H	0.03
211015 _s_at	5H	0.02		212733 _at	5H	0.03
202623 _at	5H	0.02		205609 _at	5H	0.03
227388 _at	5H	0.02		232706 _s_at	5H	0.03
225976 _at	5H	0.02				

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222623_s_at	5H	0.03	203012_x_at	51	5.65e-05
64408_s_at	5H	0.03	200933_x_at	51	5.65e-05
206586_at	5H	0.03	204686_at	51	6.09e-05
200866_s_at	5H	0.03	224906_at	51	6.34e-05
201552_at	5H	0.03	217232_x_at	51	6.34e-05
202542_s_at	5H	0.03	224369_s_at	51	6.68e-05
205842_s_at	5H	0.03	223862_at	51	1.29e-04
220980_s_at	5H	0.03	200697_at	51	1.29e-04
208684_at	5H	0.03	203810_at	51	1.37e-04
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218249_at	5H	0.03	200850_s_at	51	1.62e-04
204050_s_at	5H	0.04	201794_s_at	51	1.84e-04
206222_at	5H	0.04	221582_at	51	1.85e-04
203900_at	5H	0.04	211696_x_at	51	2.18e-04
220477_s_at	5H	0.04	211675_s_at	51	2.18e-04
214697_s_at	5H	0.04	201200_at	51	2.18e-04
202527_s_at	5H	0.04	219128_at	51	2.2e-04
225378_at	5H	0.04	202917_s_at	51	2.2e-04
209694_at	5H	0.04	212718_at	51	2.37e-04
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207674_at	5H	0.04	214173_x_at	51	2.72e-04
216997_x_at	5H	0.04	205033_s_at	51	2.77e-04
232914_s_at	5H	0.04	230243_at	51	2.91e-04
217526_at	5H	0.04	213440_at	51	2.95e-04
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204493_at	5H	0.04	201935_s_at	51	3.21e-04
224391_s_at	5H	0.04	208248_x_at	51	3.22e-04
209265_s_at	5H	0.04	212175_s_at	51	3.35e-04
1554240_a_at	5H	0.04	225771_at	51	3.7e-04
211971_s_at	5H	0.04	222859_s_at	51	3.77e-04
208610_s_at	5H	0.04	207719_x_at	51	3.77e-04
202484_s_at	5H	0.04	1553678_a_at	51	3.77e-04
1558136_s_at	5H	0.04	216231_s_at	51	4.31e-04
207535_s_at	5H	0.04	209116_x_at	51	4.31e-04
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200864_s_at	5H	0.04	1564785_at	51	4.37e-04
218367_x_at	5H	0.04	209398_at	51	4.4e-04
202422_s_at	5H	0.04	224334_s_at	51	4.49e-04
217990_at	5H	0.04	202638_s_at	51	4.65e-04
217941_s_at	5H	0.04	204594_s_at	51	5.21e-04
230572_at	5H	0.04	1553162_x_at	51	5.21e-04
200754_x_at	5H	0.04	201120_s_at	51	5.21e-04
233759_s_at	5H	0.04	AFFX-		
213507_s_at	5H	0.04	hum_alu_at	51	5.33e-04
225899_x_at	5H	0.04	49329_at	51	5.67e-04
208773_s_at	5H	0.04	209953_s_at	51	5.67e-04
214583_at	5H	0.04	202471_s_at	51	6.18e-04
201731_s_at	5H	0.04	226536_at	51	6.36e-04
200723_s_at	5H	0.04	216438_s_at	51	6.36e-04
209619_at	5H	0.04	203489_at	51	6.36e-04
212255_s_at	5H	0.04	204496_at	51	6.36e-04
225604_s_at	5H	0.04	211745_x_at	51	6.36e-04
218473_s_at	5H	0.04	202594_at	51	6.36e-04
208933_s_at	5H	0.04	202746_at	51	6.36e-04
206011_at	5H	0.04	205798_at	51	6.36e-04
210317_s_at	5H	0.04	208039_at	51	6.36e-04
210944_s_at	5H	0.04	200046_at	51	6.36e-04
200801_x_at	5H	0.04	200717_x_at	51	6.36e-04
203913_s_at	5H	0.04	217414_x_at	51	6.56e-04
214003_x_at	51	2.05e-05	209960_at	51	7.13e-04
213624_at	51	5.65e-05	204806_x_at	51	7.43e-04
213564_x_at	51	5.65e-05	230645_at	51	7.88e-04

Probe		
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217197_x_at	51	8.02e-04
208137_x_at	51	8.08e-04
213314_at	51	8.22e-04
226630_at	51	8.46e-04
207071_s_at	51	8.6e-04
91684_g_at	51	8.64e-04
225401_at	51	8.65e-04
202545_at	51	8.9e-04
208900_s_at	51	8.95e-04
219342_at	51	9.51e-04
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235479_at	51	1.509475e-03
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225640_at	51	1.53902e-03
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224625_x_at	51	1.53902e-03
AFFX-HUMGAPDH/ M33197	51	1.53902e-03
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206545_at	51	1.53902e-03
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1553551_s_at	51	1.53902e-03
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225501_at	51	1.555653e-03
203362_s_at	51	1.624429e-03
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224616_at	51	1.712874e-03
225198_at	51	1.712874e-03
51176_at	51	1.712874e-03
218602_s_at	51	1.712874e-03
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204252_at	51	1.78859e-03
215049_x_at	51	1.804915e-03
226204_at	51	1.980114e-03
211926_s_at	51	2.122415e-03
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235181_at	51	2.231016e-03
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215228_at	51	2.253684e-03
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228770_at	51	2.311178e-03
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60471_at	51	2.334388e-03
222516_at	51	2.343346e-03
212140_at	51	2.377205e-03
212451_at	51	2.410531e-03
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204689_at	51	2.444067e-03
200712_s_at	51	2.444697e-03
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230720_at	51	2.536609e-03
230252_at	51	2.536609e-03
211404_s_at	51	2.556026e-03
221782_at	51	2.591333e-03
217992_s_at	51	2.60699e-03
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229390_at	51	2.687115e-03
223262_s_at	51	2.697461e-03
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214414_x_at	51	2.898974e-03
204018_x_at	51	2.898974e-03
206283_s_at	51	2.898974e-03
200674_s_at	51	2.898974e-03
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222407_s_at	51	2.940086e-03
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207206_s_at	51	3.189314e-03
207198_s_at	51	3.207421e-03
224636_at	51	3.229165e-03
204650_s_at	51	3.229165e-03
202886_s_at	51	3.229165e-03
225051_at	51	3.252648e-03
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221553_at	5J	0.02	208132_x_at	5J	0.03
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214290	_s_at	5M	9.51e-04	227516	_at	5M	1.322951e-03
213159	_at	5M	9.51e-04	201840	_at	5M	1.360757e-03
218092	_s_at	5M	9.51e-04	34408	_at	5M	1.411233e-03
204255	_s_at	5M	9.51e-04	217552	_x_at	5M	1.433906e-03
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204436	_at	5M	9.51e-04	206672	_at	5M	1.476515e-03
203853	_s_at	5M	9.51e-04	214743	_at	5M	1.517202e-03
203725	_at	5M	9.51e-04	220088	_at	5M	1.534188e-03
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203907	_s_at	5M	9.51e-04	238353	_at	5M	1.712874e-03
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37028	_at	5M	2.536609e-03	208066	_s_at	5M	2.536609e-03
55705	_at	5M	2.536609e-03	200632	_s_at	5M	2.536609e-03
219157	_at	5M	2.536609e-03	1554899	_s_at	5M	2.536609e-03
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212335	_at	5M	2.536609e-03	200714	_x_at	5M	2.536609e-03
212862	_at	5M	2.536609e-03	1555247	_a_at	5M	2.536609e-03
212457	_at	5M	2.536609e-03	200640	_at	5M	2.536609e-03
213545	_x_at	5M	2.536609e-03	1570585	_at	5M	2.536609e-03
214733	_s_at	5M	2.536609e-03	201669	_s_at	5M	2.536609e-03
212550	_at	5M	2.536609e-03	201484	_at	5M	2.536609e-03
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216268	_s_at	5M	2.536609e-03	201670	_s_at	5M	2.536609e-03
216565	_x_at	5M	2.536609e-03	200948	_at	5M	2.536609e-03
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218304_s__at	5N	0.03	219751_at	5N	0.04
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218037_at	5N	0.03	213842_x_at	5N	0.04
217879_at	5N	0.03	215046_at	5N	0.04
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202488_s_at	5N	0.03	205214_at	5N	0.04
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207198_s_at	5N	0.03	209616_s_at	5N	0.04
208200_at	5N	0.03	1553647_at	5N	0.04
200761_s_at	5N	0.03	211945_s_at	5N	0.04
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200617_at	5N	0.03	204715_at	5N	0.04
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200055_at	5N	0.04	211509_s_at	5N	0.04
208456_s_at	5N	0.04	201238_s_at	5N	0.04

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209806	_at	50	1.11e-06
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238229_at	50	2.16e-06		208625_s_at	50	1.39e-05
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205012_s_at	50	7.25e-06		201828_x_at	50	2.16e-05
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45526_g_at	50	1.31e-05		238356_at	50	3.19e-05
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1136

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200905	_x_at	50	1.43e-04	226544	_x_at	50	2.37e-04
217982	_s_at	50	1.45e-04	202275	_at	50	2.39e-04
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200811	_at	50	1.46e-04	204563	_at	50	2.45e-04
201587	_s_at	50	1.46e-04	234981	_x_at	50	2.47e-04
200948	_at	50	1.47e-04	200967	_at	50	2.51e-04
212334	_at	50	1.49e-04	207132	_x_at	50	2.52e-04
211058	_x_at	50	1.5e-04	213881	_x_at	50	2.53e-04
204212	_at	50	1.55e-04	202727	_s_at	50	2.53e-04
213603	_s_at	50	1.57e-04	222390	_at	50	2.57e-04
206562	_s_at	50	1.57e-04	212130	_x_at	50	2.59e-04
210069	_at	50	1.58e-04	200085	_s_at	50	2.6e-04
218732	_at	50	1.59e-04	201234	_at	50	2.6e-04
216231	_s_at	50	1.6e-04	200738	_s_at	50	2.63e-04
218920	_at	50	1.61e-04	205633	_s_at	50	2.66e-04
200639	_s_at	50	1.62e-04	207243	_s_at	50	2.69e-04
236356	_at	50	1.63e-04	209586	_s_at	50	2.71e-04
213440	_at	50	1.63e-04	206687	_s_at	50	2.71e-04
219999	_at	50	1.64e-04	228690	_s_at	50	2.72e-04
206766	_at	50	1.65e-04	204336	_s_at	50	2.74e-04
217830	_s_at	50	1.67e-04	224407	_s_at	50	2.78e-04
201257	_x_at	50	1.69e-04	201210	_at	50	2.78e-04
201288	_at	50	1.7e-04	201073	_s_at	50	2.8e-04
206184	_at	50	1.73e-04	211072	_x_at	50	2.81e-04
200748	_s_at	50	1.73e-04	210532	_s_at	50	2.81e-04
200779	_at	50	1.73S-04	227465	_at	50	2.82e-04
226691	_at	50	1.74e-04	219952	_s_at	50	2.82e-04
211429	_s_at	50	1.75e-04	225967	_s_at	50	2.83e-04
213708	_s_at	50	1.76e-04	35436	_at	50	2.84e-04
203110	_at	50	1.76e-04	214698	_at	50	2.84e-04
202263	_at	50	1.81e-04	204007	_at	50	2.84e-04
202739	_s_at	50	1.83e-04	228114	_x_at	50	2.85e-04
53968	_at	50	1.85e-04	208825	_x_at	50	2.89e-04
201136	_at	50	1.87e-04	202245	_at	50	2.9e-04
204446	_s_at	50	1.88e-04	208797	_s_at	50	2.91e-04
221059	_s_at	50	1.89e-04	201698	_s_at	50	2.94e-04
208540	_x_at	50	1.89e-04	207335	_x_at	50	2.95e-04
213936	_x_at	50	1.93e-04	211779	_x_at	50	2.96e-04
234107	_s_at	50	1.94e-04	202492	_at	50	2.96e-04
203416	_at	50	1.97e-04	213137	_s_at	50	2.98e-04
214787	_at	50	1.99e-04	222975	_s_at	50	3.02e-04
211699	_x_at	50	1.99e-04	203481	_at	50	3.12e-04
209250	_at	50	1.99e-04	223341	_s_at	50	3.17e-04
209286	_at	50	2.02e-04	201814	_at	50	3.18e-04
201859	_at	50	2.04e-04	213084	_x_at	50	3.22e-04
200682	_s_at	50	2.06e-04	201441	_at	50	3.23e-04
212227	_x_at	50	2.07e-04	210044	_s_at	50	3.24e-04
210527	_x_at	50	2.08e-04	202120	_x_at	50	3.27e-04
212391	_x_at	50	2.1e-04	200660	_at	50	3.27e-04
215313	_x_at	50	2.11e-04	212549	_at	50	3.28e-04
217728	_at	50	2.13e-04	51146	_at	50	3.3e-04
202386	_s_at	50	2.13e-04	224637	_at	50	3.31e-04
227516	_at	50	2.14e-04	217928	_s_at	50	3.31e-04
37943	_at	50	2.14e-04	225294	_s_at	50	3.34e-04
219322	_s_at	50	2.17e-04	218206	_x_at	50	3.36e-04
205192	_at	50	2.19e-04	217836	_s_at	50	3.37e-04
239647	_at	50	2.26e-04	218157	_x_at	50	3.37e-04
202031	_s_at	50	2.27e-04	209458	_x_at	50	3.38e-04
203272	_s_at	50	2.28e-04	201716	_at	50	3.38e-04
217732	_s_at	50	2.32e-04	225125	_at	50	3.39e-04

212661_x_at	50	3.39e-04	216547_at	50	4.79e-04
200752_s_at	50	3.41e-04	226038_at	50	4.82e-04
238982_at	50	3.42e-04	202024_at	50	4.85e-04
208546_x_at	50	3.42e-04	223197_s_at	50	4.89e-04
203578_s_at	50	3.43e-04	212330_at	50	4.9e-04
203573_s_at	50	3.43e-04	218425_at	50	4.9e-04
208579_x_at	50	3.44e-04	204169_at	50	4.92e-04
203359_s_at	50	3.45e-04	209919_x_at	50	4.93e-04
241742_at	50	3.47e-04	209240_at	50	4.95e-04
220079_s_at	50	3.47e-04	224573_at	50	5.0le-04
221472_at	50	3.47e-04	212273_x_at	50	5.03e-04
200963_x_at	50	3.47e-04	202361_at	50	5.05e-04
206158_s_at	50	3.48e-04	223051_at	50	5.08e-04
200781_s_at	50	3.49e-04	226659_at	50	5.09e-04
201076_at	50	3.51e-04	218168_s_at	50	5.le-04
212363_x_at	50	3.52e-04	217718_s_at	50	5.13e-04
202113_s_at	50	3.57e-04	202040_s_at	50	5.13e-04
223303_at	50	3.58e-04	201864_at	50	5.2e-04
208739_x_at	50	3.58e-04	204282_s_at	50	5.22e-04
200051_at	50	3.59e-04	201290_at	50	5.29e-04
203502_at	50	3.6e-04	201666_at	50	5.3e-04
208834_x_at	50	3.6e-04	202399_s_at	50	5.33e-04
209332_s_at	50	3.64e-04	204959_at	50	5.33e-04
211961_s_at	50	3.65e-04	217756_x_at	50	5.34e-04
208056_s_at	50	3.65e-04	200600_at	50	5.35e-04
221012_s_at	50	3.74e-04	201429_s_at	50	5.36e-04
AFFX-HSAC07/			205382_s_at	50	5.43e-04
X00351_M	50	3.75e-04	209083_at	50	5.53e-04
200801_x_at	50	3.75e-04	213036_x_at	50	5.54e-04
218018_at	50	3.76e-04	208442_s_at	50	5.55e-04
202788_at	50	3.79e-04	201285_at	50	5.57e-04
213702_x_at	50	3.81e-04	60471_at	50	5.58e-04
209899_s_at	50	3.84e-04	220367_s_at	50	5.59e-04
201379_s_at	50	3.86e-04	201597_at	50	5.59e-04
221478_at	50	3.87e-04	225095_at	50	5.62e-04
201052_s_at	50	3.88e-04	217796_s_at	50	5.62e-04
203839_s_at	50	3.93e-04	200844_s_at	50	5.62e-04
223857_x_at	50	3.95e-04	202775_s_at	50	5.64e-04
204018_x_at	50	3.96e-04	235689_at	50	5.66e-04
219706_at	50	3.97e-04	209166_s_at	50	5.68e-04
217414_x_at	50	3.97e-04	217819_at	50	5.73e-04
210293_s_at	50	4.0e-04	200083_at	50	5.75e-04
212383_at	50	4.01e-04	226152_at	50	5.76e-04
203825_at	50	4.08e-04	217947_at	50	5.76e-04
200018_at	50	4.08e-04	203524_s_at	50	5.77e-04
223078_s_at	50	4.1e-04	218034_at	50	5.78e-04
222645_s_at	50	4.13e-04	203412_at	50	5.78e-04
201602_s_at	50	4.19e-04	40446_at	50	5.8e-04
217781_s_at	50	4.2e-04	204946_s_at	50	5.8e-04
209717_at	50	4.2e-04	202373_s_at	50	5.82e-04
20092_at	50	4.23e-04	201264_at	50	5.82e-04
202021_x_at	50	4.3e-04	227973_at	50	5.85e-04
241620_at	50	4.32e-04	36994_at	50	5.94e-04
235396_at	50	4.4e-04	200721_s_at	50	5.95e-04
224789_at	50	4.41e-04	202381_at	50	6.0le-04
225799_at	50	4.49e-04	217783_s_at	50	6.04e-04
201389_at	50	4.57e-04	219206_x_at	50	6.05e-04
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214430_at	50	4.63e-04	202573_at	50	6.07e-04
211000_s_at	50	4.66e-04	209022_at	50	6.09e-04
200932_s_at	50	4.66e-04	223050_s_at	50	6.18e-04
209043_at	50	4.7e-04	55705_at	50	6.2e-04
203523_at	50	4.76e-04	212359_s_at	50	6.22e-04
203206_at	50	4.76e-04	204340_at	50	6.23e-04

210774_s_at	50	6.2e-04		201320_at	50	8.64e-04
221263_s_at	50	6.29e-04		200921_s_at	50	8.77e-04
201885_s_at	50	6.32e-04		208929_x_at	50	8.81e-04
209685_s_at	50	6.34e-04		40225_at	50	8.85e-04
201705_at	50	6.35e-04		212781_at	50	8.87e-04
206542_s_at	50	6.37e-04		203437_at	50	8.9e-04
202957_at	50	6.39e-04		218064_s_at	50	8.92e-04
209116_x_at	50	6.4e-04		213798_s_at	50	9.0e-04
217910_x_at	50	6.47e-04		212252_at	50	9.04e-04
217336_at	50	6.52e-04		202257_s_at	50	9.06e-04
38290_at	50	6.53e-04		223176_at	50	9.17e-04
200661_at	50	6.54e-04		200091_s_at	50	9.19e-04
244756_at	50	6.55e-04		209154_at	50	9.22e-04
201303_at	50	6.56e-04		1556059_s_at	50	9.24e-04
208779_x_at	50	6.57e-04		200065_s_at	50	9.29e-04
236846_at	50	6.61e-04		202847_at	50	9.34e-04
226518_at	50	6.66e-04		200062_s_at	50	9.4e-04
220980_s_at	50	6.68e-04		203761_at	50	9.42e-04
218053_at	50	6.71e-04		207556_s_at	50	9.42e-04
212159_x_at	50	6.74e-04		224871_at	50	9.45e-04
218376_s_at	50	6.78e-04		202009_at	50	9.47e-04
208730_x_at	50	6.78e-04		202807_s_at	50	9.52e-04
217748_at	50	6.84e-04		217837_s_at	50	9.54e-04
203546_at	50	6.86e-04		225985_at	50	9.56e-04
202192_s_at	50	6.86e-04		213080_x_at	50	9.61e-04
208692_at	50	6.86e-04		203012_x_at	50	9.61e-04
212582_at	50	6.99e-04		200933_x_at	50	9.66e-04
224892_at	50	7.05e-04		209207_s_at	50	9.69e-04
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215498_s_at	50	7.11e-04		212886_at	50	9.77e-04
204230_at	50	7.19e-04		204892_x_at	50	9.77e-04
200808_s_at	50	7.23e-04		223179_at	50	9.78e-04
218024_at	50	7.3e-04		204164_at	50	9.79e-04
213911_s_at	50	7.33e-04		225351_at	50	9.86e-04
219371_s_at	50	7.45e-04		225210_s_at	50	9.9e-04
201665_x_at	50	7.51e-04		212588_at	50	9.99e-04
227379_at	50	7.59e-04		218482_at	50	1.008039e-03
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241984_at	50	7.68e-04		221483_s_at	50	1.0137e-03
202230_s_at	50	7.71e-04		227811_at	50	1.014004e-03
209367_at	50	7.75e-04		208632_at	50	1.019224e-03
214752_x_at	50	7.76e-04		201972_at	50	1.024025e-03
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212931_at	50	7.81e-04		201557_at	50	1.036158e-03
215706_x_at	50	7.83e-04		212901_s_at	50	1.041105e-03
213579_s_at	50	7.84e-04		208873_s_at	50	1.041816e-03
214084_x_at	50	7.85e-04		200882_s_at	50	1.042107e-03
226874_at	50	7.9e-04		52169_at	50	1.045724e-03
1559034_at	50	7.95e-04		214414_x_at	50	1.051907e-03
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203292_s_at	50	8.05e-04		224886_at	50	1.063246e-03
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224779_s_at	50	8.12e-04		202329_at	50	1.066675e-03
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209134_s_at	50	8.14e-04		208309_s_at	50	1.078536e-03
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229120_s_at	50	8.41e-04		201533_at	50	1.102377e-03
210458_s_at	50	8.54e-04		200704_at	50	1.110336e-03
224511_s_at	50	8.62e-04		213318_s_at	50	1.1134e-03

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236283_x_at	50	1.13744e-03	64899_at	50	1.426955e-03
201991_s_at	50	1.139832e-03	210715_s_at	50	1.429995e-03
200794_x_at	50	1.141233e-03	213526_s_at	50	1.438332e-03
214473_x_at	50	1.155669e-03	211978_x_at	50	1.444364e-03
200030_s_at	50	1.17119e-03	217873_at	50	1.445463e-03
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209606_at	50	1.182528e-03	218473_s_at	50	1.45716e-03
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211159_s_at	50	1.185117e-03	204158_s_at	50	1.470407e-03
225693_s_at	50	1.188229e-03	202117_at	50	1.473945e-03
201182_s_at	50	1.190408e-03	206989_s_at	50	1.475722e-03
1554168_a_at	50	1.193121e-03	200918_s_at	50	1.475909e-03
211990_at	50	1.1958e-03	203455_s_at	50	1.478463e-03
222396_at	50	1.208587e-03	217543_s_at	50	1.479402e-03
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218580_x_at	50	1.217293e-03	224447_s_at	50	1.491447e-03
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212740_at	50	1.247038e-03	218113_at	50	1.509433e-03
202423_at	50	1.2523e-03	214780_s_at	50	1.510196e-03
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217232_x_at	50	1.258298e-03	204995_at	50	1.52819e-03
209076_s_at	50	1.268234e-03	201345_s_at	50	1.543129e-03
202288_at	50	1.275887e-03	235430_at	50	1.564588e-03
209354_at	50	1.280063e-03	203943_at	50	1.566891e-03
222544_s_at	50	1.280489e-03	202692_s_at	50	1.567904e-03
219639_x_at	50	1.281073e-03	208982_at	50	1.577327e-03
221698_s_at	50	1.282749e-03	210966_x_at	50	1.583557e-03
208678_at	50	1.282925e-03	218255_s_at	50	1.591393e-03
219186_at	50	1.287026e-03	225899_x_at	50	1.595734e-03
206061_s_at	50	1.302228e-03	215535_s_at	50	1.602928e-03
200822_x_at	50	1.305261e-03	200073_s_at	50	1.624528e-03
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225707_at	50	1.320928e-03	219028_at	50	1.627593e-03
231059_x_at	50	1.323182e-03	203315_at	50	1.630611e-03
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226762_at	50	1.334398e-03	212576_at	50	1.646651e-03
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221506_s_at	50	1.344768e-03	207305_s_at	50	1.652021e-03
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201306_s_at	50	1.357224e-03	222992_s_at	50	1.65869e-03
222728_s_at	50	1.360819e-03	204206_at	50	1.667178e-03
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219161_s_at	50	1.369652e-03	205237_at	50	1.684407e-03
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212181_s_at	50	1.38808e-03	209435_s_at	50	1.716327e-03
204937_s_at	50	1.394832e-03	202521_at	50	1.719994e-03
219077_s_at	50	1.396814e-03	214663_at	50	1.720598e-03
212542_s_at	50	1.402311e-03	212718_at	50	1.729144e-03
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211696_x_at	50	1.420041e-03	202753_at	50	1.735593e-03

207180_s_at	30	1.735523e-03		210395_x_at	50	2.194123e-03
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202155_s_at	50	1.743632e-03		224658_x_at	50	2.213792e-03
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227981_at	50	1.755562e-03		218097_s_at	50	2.246e-03
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200657_at	50	0.01	217809_at	50	0.01
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241620	_at	5P	4.58e-06
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216997	_x_at	5P	2.5e-05
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1555355	_a_at	5P	4.14e-05
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217144	_at	5P	4.2e-05

Probe		p-value	Probe		p-value
212220 af	5P	T.*.T7%-05	238795_at	5P	7.98e-04
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1555565_s_at	5P	5.04e-05	205184_at	5P	9.32e-04
207793_s_at	5P	5.23e-05	207334_s_at	5P	9.71e-04
209799_at	5P	5.61e-05	205351_at	5P	1.071521e-03
201357_s_at	5P	5.95e-05	228452_at	5P	1.226616e-03
1553542_at	5P	6.65e-05	242774_at	5P	1.273722e-03
206098_at	5P	6.77e-05	220096_at	5P	1.317124e-03
1560224_at	5P	6.77e-05	202568_s_at	5P	1.363686e-03
204718_at	5P	8.45e-05	223131_s_at	5P	1.368705e-03
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AFFX-HUMISGF3A/			214119_s_at	5P	1.402649e-03
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212384_at	5P	9.22e-05	203064_s_at	5P	1.5256e-03
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208120_x_at	5P	9.97e-05	236356_at	5P	1.559521e-03
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200959_at	5P	1.08e-04	210527_x_at	5P	1.825465e-03
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222923_s_at	5P	1.19e-04	202979_s_at	5P	2.066023e-03
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202065_s_at	5P	1.24e-04	214787_at	5P	2.292404e-03
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211559_s_at	5P	1.37e-04	224392_s_at	5P	2.655229e-03
215606_s_at	5P	1.4e-04	238435_at	5P	2.662179e-03
222562_s_at	5P	1.41e-04	230375_at	5P	2.775167e-03
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211521_s_at	5P	1.54e-04	223078_s_at	5P	2.974805e-03
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208149_x_at	5P	3.17e-04	201052_s_at	5P	4.464324e-03
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224690_at	5P	6.9e-04	210042_s_at	5P	7.194599e-03
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207996_s_at	5P	0.01	226763_at	5P	0.04
1553292_s_at	5P	0.01	233168_s_at	5P	0.04
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233946_at	5P	0.01	203013_at	5P	0.04
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223300_s_at	5P	0.01	203939_at	5Q	6.2e-08
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226239_at	5P	0.01	210347_s_at	5Q	1.59e-06
227986_at	5P	0.01	207655_s_at	5Q	2.21e-06
222693_at	5P	0.02	205297_s_at	5Q	3.05e-06
235032_at	5P	0.02	37793_r_at	5Q	5.63e-06
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221693_s_at	5P	0.02	205497_at	5Q	9.87e-06
207688_s_at	5P	0.02	222146_s_at	5Q	1.03e-05
223988_x_at	5P	0.02	242028_at	5Q	1.39e-05
224789_at	5P	0.02	230489_at	5Q	2.03e-05
206470_at	5P	0.02	224367_at	5Q	2.05e-05
203023_at	5P	0.02	205861_at	5Q	2.08e-05
225692_at	5P	0.02	203753_at	5Q	2.53e-05
223417_at	5P	0.02	1569022_a_at	5Q	2.75e-05
219336_s_at	5P	0.02	225081_s_at	5Q	2.94e-05
228239_at	5P	0.02	219667_s_at	5Q	2.94e-05
236023_at	5P	0.02	221234_s_at	5Q	2.94e-05
205546_s_at	5P	0.02	210776_x_at	5Q	3.01e-05
203434_s_at	5P	0.02	217207_s_at	5Q	3.66e-05
205807_s_at	5P	0.02	230983_at	5Q	3.78e-05
212901_s_at	5P	0.02	218209_s_at	5Q	3.97e-05
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235020_at	5Q	5.64e-05	228114_x_at	5Q	7.28e-04
219922_s_at	5Q	6.37e-05	223466_x_at	5Q	7.28e-04
220342_x_at	5Q	7.75e-05	210840_s_at	5Q	7.28e-04
209514_s_at	5Q	7.75e-05	207446_at	5Q	7.28e-04
205659_at	5Q	7.75e-05	222360_at	5Q	7.33e-04
209841_s_at	5Q	9.34e-05	39318_at	5Q	7.4e-04
55872_at	5Q	9.73e-05	224435_at	5Q	7.95e-04
202862_at	5Q	9.73e-05	225265_at	5Q	7.96e-04
244716_x_at	5Q	1.01e-04	232964_at	5Q	8.02e-04
217979_at	5Q	1.22e-04	206337_at	5Q	8.12e-04
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203642_s_at	5Q	1.24e-04	209317_at	5Q	8.13e-04
212139_at	5Q	1.26e-04	218723_s_at	5Q	8.31e-04
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207223_s_at	5Q	1.72e-04	227063_at	5Q	8.7e-04
219497_s_at	5Q	1.87e-04	224450_s_at	5Q	8.7e-04
206150_at	5Q	1.87e-04	206471_s_at	5Q	8.7e-04
206245_s_at	5Q	1.87e-04	206478_at	5Q	8.7e-04
200965_s_at	5Q	2.04e-04	203221_at	5Q	8.74e-04
211721_s_at	5Q	2.15e-04	1555779_a_at	5Q	8.81e-04
221790_s_at	5Q	2.29e-04	203023_at	5Q	9.0e-04
219870_at	5Q	2.3e-04	222587_s_at	5Q	9.11e-04
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224516_s_at	5Q	2.79e-04	201871_s_at	5Q	9.97e-04
213811_x_at	5Q	2.8e-04	220421_at	5Q	1.003208e-03
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204793_at	5Q	3.01e-04	218264_at	5Q	1.032326e-03
205049_s_at	5Q	3.03e-04	214672_at	5Q	1.03507e-03
214697_s_at	5Q	3.43e-04	208913_at	5Q	1.03507e-03
205194_at	5Q	3.73e-04	201306_s_at	5Q	1.03507e-03
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202431_s_at	5Q	4.17e-04	207753_at	5Q	1.141364e-03
201797_s_at	5Q	4.23e-04	34764_at	5Q	1.172511e-03
223222_at	5Q	4.24e-04	205192_at	5Q	1.172511e-03
202016_at	5Q	4.31e-04	214427_at	5Q	1.178616e-03
212190_at	5Q	4.95e-04	217853_at	5Q	1.19521e-03
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221558_s_at	5Q	5.54e-04	201036_s_at	5Q	1.28283e-03
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230634 _x_at	5Q	1.455689e-03
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224988 _at	5Q	1.471017e-03
224392 __s_at	5Q	1.472542e-03
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212589 _at	5Q	1.478301e-03
220946 _s_at	5Q	1.478899e-03
223107 _s_at	5Q	1.513054e-03
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216997 _x_at	5Q	1.524408e-03
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225997 _at	5Q	1.551802e-03
218262 _at	5Q	1.643977e-03
209253 _at	5Q	1.647442e-03
234299 _s_at	5Q	1.686829e-03
200729 _s_at	5Q	1.707293e-03
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200875 _s_at	5Q	1.708173e-03
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238851 _at	5Q	1.784138e-03
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214662 _at	5Q	1.859824e-03
227173 _s_at	5Q	1.866829e-03
212541 _at	5Q	1.866829e-03
221836 _s_at	5Q	1.866829e-03
225030 _at	5Q	1.879798e-03
201656 _at	5Q	1.898373e-03
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207691 _x_at	5Q	1.925311e-03
200607 _s_at	5Q	1.926714e-03
2190 43 _s_at	5Q	1.933164e-03
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201013 _s_at	5Q	1.974003e-03
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226301 _at	5Q	2.004876e-03
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225794 _s_at	5Q	2.121902e-03
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221060 _s_at	5Q	2.52083e-03
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1552829 _at	5Q	2.947056e-03
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217975 _at	5Q	3.131143e-03
206708 _at	5Q	3.177343e-03
219123 _at	5Q	3.179791e-03

1157

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212539_at	5Q	3.179791e-03	203956_at	5Q	4.208816e-03
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202153_s_at	5Q	3.532117e-03	208875_s_at	5Q	4.259183e-03
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203208_s_at	5Q	3.581426e-03	1557158_s_at	5Q	4.259183e-03
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1554229_at	5Q	3.676123e-03	218187_s_at	5Q	4.362329e-03
210254_at	5Q	3.677142e-03	218633_x_at	5Q	4.364328e-03
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224837_at	5Q	3.685544e-03	1555105_a_at	5Q	4.480743e-03
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218149_s_at	5Q	3.685544e-03	205037_at	5Q	4.671051e-03
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213720_s_at	5Q	3.829344e-03	217871_s_at	5Q	4.907991e-03
228083_at	5Q	3.853304e-03	212191_x_at	5Q	4.907991e-03
218012_at	5Q	3.853304e-03	202408_s_at	5Q	4.907991e-03
202500_at	5Q	3.866574e-03	205425_at	5Q	4.907991e-03
226350_at	5Q	3.902334e-03	208734_x_at	5Q	4.907991e-03
43544_at	5Q	3.903939e-03	208116_s_at	5Q	4.907991e-03
202640_s_at	5Q	3.95415e-03	201272_at	5Q	4.907991e-03
39248_at	5Q	3.999044e-03	201858_s_at	5Q	4.907991e-03
48117_at	5Q	4.011421e-03	200913_at	5Q	4.934068e-03
217418_x_at	5Q	4.03114e-03	1555154_a_at	5Q	4.959581e-03
214437_s_at	5Q	4.031241e-03	205307_s_at	5Q	4.989585e-03
202813_at	5Q	4.031241e-03	221193_s_at	5Q	5.045579e-03
200973_s_at	5Q	4.031241e-03	218513_s_at	5Q	5.046058e-03
206543_at	5Q	4.068354e-03	205731_s_at	5Q	5.046548e-03
200605_s_at	5Q	4.14275e-03	228915_at	5Q	5.062201e-03
206261_at	5Q	4.161502e-03	222848_at	5Q	5.062201e-03
201849_at	5Q	4.178288e-03	218882_s_at	5Q	5.084325e-03

233575_s_at	5Q	5.102085e-03
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203152_at	5Q	5.190211e-03
243764_at	5Q	5.193608e-03
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204327_s_at	5Q	5.203258e-03
211085_s_at	5Q	5.215446e-03
202106_at	5Q	5.225155e-03
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222047_s_at	5Q	5.275472e-03
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211615_s_at	5Q	5.337173e-03
221695_s_at	5Q	5.372866e-03
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239801_at	5Q	5.403201e-03
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202469_s_at	5Q	5.568327e-03
212314_at	5Q	5.578018e-03
218059_at	5Q	5.580604e-03
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205628_at	5Q	5.622955e-03
207549_x_at	5Q	5.634356e-03
225888_at	5Q	5.639804e-03
224480_s_at	5Q	5.639804e-03
227569_at	5Q	5.639804e-03
238462_at	5Q	5.639804e-03
230375_at	5Q	5.639804e-03
53968_at	5Q	5.639804e-03
218648_at	5Q	5.639804e-03
213875_x_at	5Q	5.639804e-03
217862_at	5Q	5.639804e-03
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209218_at	5Q	5.639804e-03
208885_at	5Q	5.639804e-Q3
200823_x_at	5Q	5.639804e-03
201225_s_at	5Q	5.639804e-03
208912_s_at	5Q	5.719097e-03
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208822_s_at	5Q	5.783239e-03
200028_s_at	5Q	5.814439e-03
203818_s_at	5Q	5.816993e-03
235061_at	5Q	5.856e-03
1007_s_at	5Q	5.856e-03
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212096_s_at	5Q	6.242786e-03
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223743_s_at	5Q	6.257402e-03
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202058_s_at	5Q	6.322792e-03
226688_at	5Q	6.348868e-03
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217216_x_at	5Q	6.355307e-03
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211954_s_at	5Q	6.38079e-03
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228452_at	5Q	6.463025e-03
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212208_at	5Q	6.463025e-03
205684_s_at	5Q	6.463025e-03
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208055_s_at	5Q	6.463025e-03
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35156_at	5Q	6.49425e-03
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219352_at	5Q	6.518983e-03
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214112_s_at	5Q	6.689591e-03
222490_at	5Q	6.692804e-03
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226762_at	5Q	6.756947e-03
201347_x_at	5Q	6.764266e-03
210627_s_at	5Q	6.792436e-03
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235022_at	5Q	6.841288e-03
216396_s_at	5Q	6.85618e-03
202125_s_at	5Q	6.90103e-03
235366_at	5Q	6.981711e-03
208910_s_at	5Q	6.996756e-03
220957_at	5Q	7.055774e-03
219724_s_at	5Q	7.093047e-03
217743_s_at	5Q	7.094068e-03
226656_at	5Q	7.110275e-03
231995_at	5Q	7.111007e-03
217759_at	5Q	7.350867e-03
218140_x_at	5Q	7.364499e-03
218492_s_at	5Q	7.386639e-03
212677_s_at	5Q	7.386639e-03

1159

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223465 _at	5Q	7.386639e-03		221988 _at	5Q	8.377267e-03
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211975 _at	5Q	7.386639e-03		210943 _s_at	5Q	8.407761e-03
202114 _at	5Q	7.386639e-03		204977 _at	5Q	8.408734e-03
202051 _s_at	5Q	7.386639e-03		212897 _at	5Q	8.419781e-03
207291 _at	5Q	7.386639e-03		226752 _at	5Q	8.420226e-03
206181 _at	5Q	7.386639e-03		224790 _at	5Q	8.420226e-03
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207904 _s_at	5Q	7.386639e-03		224735 _at	5Q	8.420226e-03
200094 _s_at	5Q	7.386639e-03		235125 _x_at	5Q	8.420226e-03
1558747 _at	5Q	7.386639e-03		212831 _at	5Q	8.420226e-03
200024 _at	5Q	7.386639e-03		213892 _s_at	5Q	8.420226e-03
200059 _s_at	5Q	7.386639e-03		220615 _s_at	5Q	8.420226e-03
201009 _s_at	5Q	7.392142e-03		210645 }s_at	5Q	8.420226e-03
201277 _s_at	5Q	7.392335e-03		202333 _s_at	5Q	8.420226e-03
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202388 _at	5Q	7.45338e-03		200824 _at	5Q	8.420226e-03
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226466	_s_at	5Q	0.01
225967	_s_at	5Q	0.01
213859	_x_at	5Q	0.01
203858	_s_at	5Q	0.01
202071	_at	5Q	0.01
210461	_s_at	5Q	0.01
58367	_s_at	5Q	0.01
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228490	_at	5Q	0.01
1558953	_s_at	5Q	0.01
212459	_x_at	5Q	0.01
221196	_x_at	5Q	0.01
221306	_at	5Q	0.01
206983	_at	5Q	0.01

205804	_s_at	5Q	0.01
212538	_at	5Q	0.01
232229	_at	5Q	0.01
200740	_s_at	5Q	0.01
227345	_at	5Q	0.01
231008	_at	5Q	0.01
204106	_at	5Q	0.01
221096	_s_at	5Q	0.01
211005	_at	5Q	0.01
201118	_at	5Q	0.01
218875	_s_at	5Q	0.01
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224879	_at	5Q	0.01
210594	_x_at	5Q	0.01
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211960	_s_at	5Q	0.01
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201106	_at	5Q	0.01
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204258_at	5Q	0.02		202606_s_at	5Q	0.02
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212207_at	5Q	0.02		207490_at	5Q	0.02
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1558392_at	5Q	0.02		208735_s_at	5Q	0.02
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212709_at	5Q	0.02		201989_s_at	5Q	0.02
204744_s_at	5Q	0.02		200869_at	5Q	0.02
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204000_at	5Q	0.03		223159_s_at	5Q	0.03
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220960_x_at	5Q	0.03		203802_x_at	5Q	0.03
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221718_s_at	5Q	0.03		220436_at	5Q	0.03
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202927_at	5Q	0.03		219623_at	5Q	0.03
204049_s_at	5Q	0.03		208772_at	5Q	0.03
221194_s_at	5Q	0.03		226496_at	5Q	0.03
211271_x_at	5Q	0.03		224659_at	5Q	0.03
212209_at	5Q	0.03		201503_at	5Q	0.03
213128_s_at	5Q	0.03		200843_s_at	5Q	0.03
208767_s_at	5Q	0.03		1553048_a_at	5Q	0.03
203040_s_at	5Q	0.03		202466_at	5Q	0.03
214220_s_at	5Q	0.03		219971_at	5Q	0.03
200807_s_at	5Q	0.03		200905_x_at	5Q	0.03
1552611_a_at	5Q	0.03		228029_at	5Q	0.03
202518_at	5Q	0.03		226996_at	5Q	0.03
219765_at	5Q	0.03		217860_at	5Q	0.03
206183_s_at	5Q	0.03		209042_s_at	5Q	0.03
211630_s_at	5Q	0.03		213159_at	5Q	0.03
213083_at	5Q	0.03		205288_at	5Q	0.03
212500_at	5Q	0.03		224331_s_at	5Q	0.03
217793_at	5Q	0.03		202245_at	5Q	0.03
231794_at	5Q	0.03		204228_at	5Q	0.03
211558_s_at	5Q	0.03		226054_at	5Q	0.03
202717_s_at	5Q	0.03		225103_at	5Q	0.03

Probe				Probe		
201501	_s_at	5Q	0.03	221494	_x_at	5Q	0.03
226521	_s_at	5Q	0.03	226823	_at	5Q	0.03
224906	_at	5Q	0.03	206429	_at	5Q	0.03
226414	_s_at	5Q	0.03	1552634	_a_at	5Q	0.03
36554	_at	5Q	0.03	200050	_at	5Q	0.03
235113	_at	5Q	0.03	214606	_at	5Q	0.03
219788	_at	5Q	0.03	208200	_at	5Q	0.03
220355	_s_at	5Q	0.03	200830	_at	5Q	0.03
214953	_s_at	5Q	0.03	224221	_s_at	5Q	0.03
213846	_[at	5Q	0.03	223417	_at	5Q	0.03
214290	_s_at	5Q	0.03	36499	_at	5Q	0.03
213687	_-s_at	5Q	0.03	202593	_s_at	5Q	0.03
218354	_at	5Q	0.03	215719	_x_at	5Q	0.03
217845	_x_at	5Q	0.03	204970	_s_at	5Q	0.03
217167	_x_at	5Q	0.03	1557053	_s_at	5Q	0.03
217885	_[at	5Q	0.03	204520	_x_at	5Q	0.03
204630	_s_at	5Q	0.03	244227	_at	5Q	0.03
203414	_at	5Q	0.03	203611	_at	5Q	0.03
203693	_s_at	5Q	0.03	230490	_x_at	5Q	0.03
221253	_s_at	5Q	0.03	201509	_at	5Q	0.03
209712	_at	5Q	0.03	223275	_at	5Q	0.03
202464	_[s_at	5Q	0.03	203189	_s_at	5Q	0.03
203041	_s_at	5Q	0.03	209790	_s_at	5Q	0.03
205922	_at	5Q	0.03	231059	_x_at	5Q	0.03
200840	_[at	5Q	0.03	218732	_at	5Q	0.03
200043	_at	5Q	0.03	231940	_at	5Q	0.03
200849	_s_at	5Q	0.03	238356	_at	5Q	0.03
200029	_[at	5Q	0.03	200744	_s_at	5Q	0.03
203 104	_x_at	5Q	0.03	1568720	_at	5Q	0.03
201470	_at	5Q	0.03	64486	_at	5Q	0.03
201491	_at	5Q	0.03	201165	_s_at	5Q	0.03
201238	_s_at	5Q	0.03	205133	_s_at	5Q	0.03
2257C3	_[at;	5Q	0.03	207608	_x_at	5Q	0.03
219116	_s_at	5Q	0.03	222673	_x_at	5Q	0.03
205016	_at	5Q	0.03	208787	_at	5Q	0.03
201177	_s_at	5Q	0.03	209160	_at	5Q	0.03
212315	_s_at	5Q	0.03	225659	_at	5Q	0.03
220999	_s_at	5Q	0.03	235089	_at	5Q	0.03
202836	_s_at	5Q	0.03	1552701	_a_at	5Q	0.03
204215	_at	5Q	0.03	227784	_s_at	5Q	0.03
221532	_s_at	5Q	0.03	203341	_at	5Q	0.03
223584	_s_at	5Q	0.03	203987	_at	5Q	0.03
214791	_at	5Q	0.03	210910	_s_at	5Q	0.03
233511	_at	5Q	0.03	208594	_x_at	5Q	0.03
218409	_s_at	5Q	0.03	219161	_s_at	5Q	0.03
209330	_s_at	5Q	0.03	222387	_s_at	5Q	0.03
1557165	_s_at	5Q	0.03	202660	_at	5Q	0.03
203451	_at	5Q	0.03	1555565	_s_at	5Q	0.03
220400	_at	5Q	0.03	222336	_at	5Q	0.03
216933	_x_at	5Q	0.03	220643	_s_at	5Q	0.03
203707	_at	5Q	0.03	202198	_s_at	5Q	0.03
226339	_[at	5Q	0.03	1552610	_a_at	5Q	0.03
202947	_s_at	5Q	0.03	222428	_s_at	5Q	0.03
228916	_at	5Q	0.03	201227	_s_at	5Q	0.03
217721	_at	5Q	0.03	223324	_s_at	5Q	0.03
207405	_s_at	5Q	0.03	213578	_at	5Q	0.03
217738	_at	5Q	0.03	202906	_s_at	5Q	0.03
209057	_x_at	5Q	0.03	218543	_s_at	5Q	0.03
202457	_s_at	5Q	0.03	222489	_s_at	5Q	0.03
202735	_[at	5Q	0.03	217909	_s_at	5Q	0.03
204505	_s_at	5Q	0.03	220597	_s_at	5Q	0.03
211967	_[at	5Q	0.03	213341	_at	5Q	0.03
201416	_at	5Q	0.03	227598	_at	5Q	0.03
200868	_s_at	5Q	0.03	225692	_at	5Q	0.03

224866"_at	5Q	0.03		202396_at	5Q	0.03
225052_at	5Q	0.03		218019"_s_at	5Q	0.03
223674~_s_at	5Q	0.03		226817_at	5Q	0.03
226489~_at	5Q	0.03		1552612_at	5Q	0.03
225125_at	5Q	0.03		47083_at	5Q	0.03
233124_s_at	5Q	0.03		213958_at	5Q	0.03
232617_at	5Q	0.03		223609_at	5Q	0.03
229666_s_at	5Q	0.03		204445_s_at	5Q	0.03
238428_at	5Q	0.03		202168_at	5Q	0.03
219287_at	5Q	0.03		1552316_a_at	5Q	0.03
219190_s_at	5Q	0.03		229632_s_at	5Q	0.03
219329_s_at	5Q	0.03		202394_s_at	5Q	0.03
212582_at	5Q	0.03		206167_s_at	5Q	0.03
213073_at	5Q	0.03		202282_at	5Q	0.03
212453_at	5Q	0.03		203387_s_at	5Q	0.03
212885_at	5Q	0.03		225319_s_at	5Q	0.03
213588_x_at	5Q	0.03		209674_at	5Q	0.03
214470_at	5Q	0.03		219675_s_at	5Q	0.03
218153_-at	5Q	0.03		202858_at	5Q	0.03
217728_at	5Q	0.03		211530_x_at	5Q	0.03
218068_s_at	5Q	0.03		206845_s_at	5Q	0.03
217822_at	5Q	0.03		208630_at	5Q	0.03
217983_s_at	5Q	0.03		213340_s_at	5Q	0.03
204283_at	5Q	0.03		238793]_at	5Q	0.03
203388_at	5Q	0.03		200747_s_at	5Q	0.03
204839_at	5Q	0.03		204718_at	5Q	0.03
223040_at	5Q	0.03		203461_at	5Q	0.03
222717_at	5Q	0.03		203685_at	5Q	0.03
211982_x_at	5Q	0.03		211742_s_at	5Q	0.03
211612_s_at	5Q	0.03		204020_at	5Q	0.03
202255_s_at	5Q	0.03		239196_at	5Q	0.03
202720_at	5Q	0.03		225881_at	5Q	0.03
202706_s_at	5Q	0.03		202217_at	5Q	0.03
203185_at	5Q	0.03		204132_s_at	5Q	0.03
202642_s_at	5Q	0.03		201757_[at	5Q	0.03
207812_s_at	5Q	0.03		206055_s_at	5Q	0.04
209329_x_at	5Q	0.03		210286_s_at	5Q	0.04
208970_s_at	5Q	0.03		204501_at	5Q	0.04
1555736_a_at	5Q	0.03		201668_x_at	5Q	0.04
200016_x_at	5Q	0.03		229025_s_at	5Q	0.04
200692_s_at	5Q	0.03		225341_at	5Q	0.04
200790_at	5Q	0.03		200996_at	5Q	0.04
201256_at	5Q	0.03		201742_x_at	5Q	0.04
200898_s_at	5Q	0.03		218304_s_at	5Q	0.04
201872_s_at	5Q	0.03		203990_s_at	5Q	0.04
1552798_a_at	5Q	0.03		202900_s_at	5Q	0.04
238860_at	5Q	0.03		208101_s_at	5Q	0.04
234000_s_at	5Q	0.03		225534_at	5Q	0.04
205340_at	5Q	0.03		202414_at	5Q	0.04
204686_at	5Q	0.03		216253_s_at	5Q	0.04
212101_at	5Q	0.03		217842_[at	5Q	0.04
224723_x_at	5Q	0.03		217457_s_at	5Q	0.04
227236_at	5Q	0.03		243786_at	5Q	0.04
204201_s_at	5Q	0.03		219375_at	5Q	0.04
205547_s_at	5Q	0.03		200812_at	5Q	0.04
202793_at	5Q	0.03		207332_s_at	5Q	0.04
204706_at	5Q	0.03		204806_x_at	5Q	0.04
204624_at	5Q	0.03		201890_at	5Q	0.04
201019_s_at	5Q	0.03		201477_s_at	5Q	0.04
208796_s_at	5Q	0.03		203049_s_at	5Q	0.04
1554153_a_at	5Q	0.03		217729_s_at	5Q	0.04
216252_x_at	5Q	0.03		219007_at	5Q	0.04
225297_at	5Q	0.03		212514_x_at	5Q	0.04
200623_s_at	5Q	0.03		225414_at	5Q	0.04

225106_s_at	5Q	0.04	219029_at	5Q	0.04
225827_at	5Q	0.04	204676_at	5Q	0.04
224714_at	5Q	0.04	211464_x_at	5Q	0.04
227625_s_at	5Q	0.04	212159_x_at	5Q	0.04
238773_at	5Q	0.04	224865_at	5Q	0.04
49485_at	5Q	0.04	203914_x_at	5Q	0.04
219156_at	5Q	0.04	203775_at	5Q	0.04
219231_at	5Q	0.04	201922_at	5Q	0.04
212593_s_at	5Q	0.04	212437_at	5Q	0.04
214875_x_at	5Q	0.04	203313_s_at	5Q	0.04
212814_at	5Q	0.04	230748_at	5Q	0.04
213080_x_at	5Q	0.04	226016_at	5Q	0.04
212995_x_at	5Q	0.04	218698_at	5Q	0.04
214421_x_at	5Q	0.04	220097_s_at	5Q	0.04
217838_s_at	5Q	0.04	201268_at	5Q	0.04
217740_x_at	5Q	0.04	202746_at	5Q	0.04
217956_s_at	5Q	0.04	222707_s_at	5Q	0.04
218116_at	5Q	0.04	211339_s_at	5Q	0.04
220755_s_at	5Q	0.04	201486_at	5Q	0.04
223212_at	5Q	0.04	219276_x_at	5Q	0.04
220757_s_at	5Q	0.04	234979_at	5Q	0.04
223002_s_at	5Q	0.04	201855_s_at	5Q	0.04
223283_s_at	5Q	0.04	222529_at	5Q	0.04
209494_s_at	5Q	0.04	213178_s_at	5Q	0.04
211345_x_at	5Q	0.04	231270_at	5Q	0.04
202724_s_at	5Q	0.04	206959_s_at	5Q	0.04
202709_at	5Q	0.04	214299_at	5Q	0.04
202869_at	5Q	0.04	234423_x_at	5Q	0.04
202955_s_at	5Q	0.04	232001_at	5Q	0.04
202429_s_at	5Q	0.04	201868_s_at	5Q	0.04
207132_x_at	5Q	0.04	216231_s_at	5Q	0.04
205089_at	5Q	0.04	228597_at	5Q	0.04
205627_at	5Q	0.04	203190_at	5Q	0.04
205945_at	5Q	0.04	214441_at	5Q	0.04
209338_at	5Q	0.04	213262_at	5Q	0.04
208746_x_at	5Q	0.04	1552516_a_at	5Q	0.04
208804_s_at	5Q	0.04	202268_s_at	5Q	0.04
209222_s_at	5Q	0.04	201891_s_at	5Q	0.04
209076_s_at	5Q	0.04	219711_at	5Q	0.04
207573_x_at	5Q	0.04	205361_s_at	5Q	0.04
208886_at	5Q	0.04	223620_at	5Q	0.04
1568618_a_at	5Q	0.04	205408_at	5Q	0.04
1555950_a_at	5Q	0.04	1564785_at	5Q	0.04
201089_at	5Q	0.04	210283_x_at	5Q	0.04
201258_at	5Q	0.04	219157_at	5Q	0.04
201634_s_at	5Q	0.04	217527_s_at	5Q	0.04
201186_at	5Q	0.04	220566_at	5Q	0.04
200998_s_at	5Q	0.04	220189_s_at	5Q	0.04
225209_s_at	5Q	0.04	229540_at	5Q	0.04
208858_s_at	5Q	0.04	1552772_at	5Q	0.04
219089_s_at	5Q	0.04	205671_s_at	5Q	0.04
213043_s_at	5Q	0.04	220453_at	5Q	0.04
227927_at	5Q	0.04	31874_at	5Q	0.04
204098_at	5Q	0.04	233589_x_at	5Q	0.04
219997_s_at	5Q	0.04	211771_s_at	5Q	0.04
204278_s_at	5Q	0.04	211951_at	5Q	0.04
209791_at	5Q	0.04	215159_s_at	5Q	0.04
48580_at	5Q	0.04	202230_s_at	5Q	0.04
206061_s_at	5Q	0.04	211521_s_at	5Q	0.04
233177_s_at	5Q	0.04	222729_at	5Q	0.04
204295_at	5Q	0.04	217870_s_at	5Q	0.04
218667_at	5Q	0.04	201680_x_at	5Q	0.04
225261_x_at	5Q	0.04	204610_s_at	5Q	0.04
226296_s_at	5Q	0.04	1555659_a_at	5Q	0.04

220195	_at	5Q	0.04	200659	_s_at	5Q	0.04
202710	_at	5Q	0.04	201800	_s_at	5Q	0.04
215990	_s_at	5Q	0.04	201740	_at	5Q	0.04
220701	_at	5Q	0.04	201121	_s_at	5Q	0.04
206244	_at	5Q	0.04	201002	_s_at	5Q	0.04
213291	_s_at	5Q	0.04	201437	_s_at	5Q	0.04
233168	_s_at	5Q	0.04	222108	_at	5Q	0.04
202315	_s_at	5Q	0.04	210756	_s_at	5Q	0.04
200889	_s_at	5Q	0.04	221210	_s_at	5Q	0.04
208658	_at	5Q	0.04	202166	_s_at	5Q	0.04
212602	_at	5Q	0.04	208931	_s_at	5Q	0.04
213564	_x_at	5Q	0.04	211207	_s_at	5Q	0.04
218372	_at	5Q	0.04	202309	_at	5Q	0.04
205920	_at	5Q	0.04	223299	_at	5Q	0.04
201288	_at	5Q	0.04	202418	_at	5Q	0.04
1569207	_s_at	5Q	0.04	203209	_at	5Q	0.04
212311	_at	5Q	0.04	218997	_at	5Q	0.04
209006	_s_at	5Q	0.04	223266	_at	5Q	0.04
202284	_s_at	5Q	0.04	204369	_at	5Q	0.04
221437	_s_at	5Q	0.04	212499	_s_at	5Q	0.04
202594	_at	5Q	0.04	203397	_s_at	5Q	0.04
208812	_x_at	5Q	0.04	235802	_at	5Q	0.04
203535	_at	5Q	0.04	209111	_at	5Q	0.04
219378	_at	5Q	0.04	1553801	_a_at	5Q	0.04
219731	_at	5Q	0.04	52285	_f_at	5Q	0.04
219291	_at	5Q	0.04	218526	_s_at	5Q	0.04
227647	_at	5Q	0.04	204838	_s_at	5Q	0.04
224637	_at	5Q	0.04	211064	_at	5Q	0.04
224607	_s_at	5Q	0.04	209486	_at	5Q	0.04
224926	_at	5Q	0.04	206761	_at	5Q	0.04
231252	_at	5Q	0.04	1552734	_at	5Q	0.04
234725	_s_at	5Q	0.04	234734	s_at	5Q	0.04
231727	s_at	5Q	0.04	225713	_at	5Q	0.04
228805	_at	5Q	0.04	211372	_s_at	5Q	0.04
219892	_at	5Q	0.04	211661	_x_at	5Q	0.04
219293	_s_at	5Q	0.04	203692	_s_at	5Q	0.04
219484	_at	5Q	0.04	206565	_x_at	5Q	0.04
212420	_at	5Q	0.04	204554	_at	5Q	0.04
214196	_s_at	5Q	0.04	211503	_s_at	5Q	0.04
212692	_s_at	5Q	0.04	210006	_at	5Q	0.04
218026	_at	5Q	0.04	224833	_at	5Q	0.04
215758	_x_at	5Q	0.04	201930	_at	5Q	0.04
217673	_x_at	5Q	0.04	214150	_x_at	5Q	0.04
204115	_at	5Q	0.04	210734	_x_at	5Q	0.04
203593	_at	5Q	0.04	204391	x_at	5Q	0.04
203482	_at	5Q	0.04	225470	_at	5Q	0.04
204122	_at	5Q	0.04	214306	_at	5Q	0.04
221452	_s_at	5Q	0.04	203026	_at	5Q	0.04
223001	_at	5Q	0.04	202250	_s_at	5Q	0.04
221263	_s_at	5Q	0.04	222448	_s_at	5Q	0.04
221891	_x_at	5Q	0.04	208690	_s_at	5Q	0.04
212138	_at	5Q	0.04	206656	_s_at	5Q	0.04
211023	_at	5Q	0.04	206655	_s_at	5Q	0.04
209798	_at	5Q	0.04	205426	_s_at	5Q	0.04
202165	_at	5Q	0.04	214585	_s_at	5Q	0.04
207996	_s_at	5Q	0.04	202602	_s_at	5Q	0.04
208674	_x_at	5Q	0.04	227378	_x_at	5Q	0.04
208018	_s_at	5Q	0.04	219549	_s_at	5Q	0.04
209316	_s_at	5Q	0.04	222014	_x_at	5Q	0.04
209154	_at	5Q	0.04	211270	_x_at	5Q	0.04
208828	_at	5Q	0.04	205590	_at	5Q	0.04
200725	x_at	5Q	0.04	216383	_at	5Q	0.04
1555594	_a_at	5Q	0.04	219819	_s_at	5Q	0.04
200053	_at	5Q	0.04	219426	_at	5Q	0.04

213318_s_at	5Q	0.04	204392_at	5R	1.44e-04
1552362_a_at	5Q	0.04	212316_at	5R	1.57e-04
207761_s_at	5Q	0.04	203871_at	5R	2.15e-04
201059_at	5Q	0.04	213669_at	5R	2.54e-04
212840_at	5Q	0.04	200998_s_at	5R	2.82e-04
200625_s_at	5Q	0.04	223765_s_at	5R	5.15e-04
213092_x_at	5Q	0.04	205037_at	5R	6.44e-04
207782_s_at	5Q	0.04	227363_s_at	5R	6.45e-04
221531_at	5Q	0.04	204055_s_at	5R	6.49e-04
208325_s_at	5Q	0.04	208141_s_at	5R	6.6e-04
218642_s_at	5Q	0.04	216308_x_at	5R	7.03e-04
1555470_a_at	5Q	0.04	201347_x_at	5R	7.11e-04
213995_at	5Q	0.04	238793_at	5R	9.07e-04
205655_at	5Q	0.04	235683_at	5R	9.45e-04
201950_x_at	5Q	0.04	224480_s_at	5R	9.59e-04
221932_s_at	5Q	0.04	229010_at	5R	1.151343e-03
233746_x_at	5Q	0.04	218181_s_at	5R	1.209501e-03
209221_s_at	5Q	0.04	209765_at	5R	1.217048e-03
1554168_a_at	5Q	0.04	204759_at	5R	1.26014e-03
224838_at	5Q	0.04	219337_at	5R	1.411422e-03
230214_at	5Q	0.04	219392_x_at	5R	1.444863e-03
55662_at	5Q	0.04	241385_at	5R	1.457036e-03
1553547_at	5Q	0.04	1569932_at	5R	1.503201e-03
218027_at	5Q	0.04	227920_at	5R	1.670458e-03
213374_x_at	5Q	0.04	219271_at	5R	1.75342e-03
224848_at	5Q	0.04	203679_at	5R	1.774523e-03
242056_at	5Q	0.04	211358_s_at	5R	1.795009e-03
223393_s_at	5Q	0.04	32811_at	5R	1.9651e-03
223191_at	5Q	0.04	203709_at	5R	2.126072e-03
217864_s_at	5Q	0.04	210042_s_at	5R	2.201107e-03
201092_at	5Q	0.04	205497_at	5R	2.216929e-03
222631_at	5Q	0.04	201549_x_at	5R	2.305346e-03
216526_x_at	5Q	0.04	202300_at	5R	2.320191e-03
217989_at	5Q	0.04	223570_at	5R	2.379837e-03
218680_x_at	5Q	0.04	207515_s_at	5R	2.658988e-03
201555_at	5Q	0.04	225994_at	5R	2.767838e-03
221027_s_at	5Q	0.04	221058_s_at	5R	2.775439e-03
225061_at	5Q	0.04	223428_s_at	5R	2.967023e-03
211163_s_at	5Q	0.04	205471_s_at	5R	2.977438e-03
201955_at	5Q	0.04	210479_s_at	5R	2.996503e-03
204524_at	5Q	0.04	225299_at	5R	3.006172e-03
224954_at	5Q	0.04	227748_at	5R	3.013899e-03
213136_at	5Q	0.04	214864_s_at	5R	3.240543e-03
217905_at	5Q	0.04	218866_s_at	5R	3.394418e-03
226259_at	5Q	0.04	204861_s_at	5R	3.412208e-03
229983_at	5Q	0.04	208658_at	5R	3.502862e-03
218201_at	5Q	0.04	226050_at	5R	3.593174e-03
212720_at	5Q	0.04	214421_x_at	5R	3.69307e-03
204593_s_at	5Q	0.04	218883_s_at	5R	4.079033e-03
202930_s_at	5Q	0.04	1555639_a_at	5R	4.167694e-03
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209102_s_at	5Q	0.04	1553626_a_at	5R	4.325979e-03
214945_at	5Q	0.04	239586_at	5R	4.622851e-03
226619_at	5Q	0.04	226378_s_at	5R	4.767836e-03
203480_s_at	5Q	0.04	200899_s_at	5R	4.850223e-03
219055_at	5Q	0.04	204501_at	5R	4.856714e-03
201196_s_at	5Q	0.04	227223_at	5R	4.963615e-03
226285_at	5Q	0.04	225558_at	5R	5.121073e-03
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212469_at	5Q	0.04	226163_at	5R	5.121073e-03
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221848_at	5R	4.19e-05	225882_at	5R	5.121073e-03
210624_s_at	5R	4.6e-05	224619_at	5R	5.121073e-03
209556_at	5R	9.28e-05	237426_at	5R	5.121073e-03

238660_at	5R	5.121073e-03	235110_at	5R	5.69183e-03
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235057_at	5R	5.121073e-03	218094_s_at	5R	5.69183e-03
236605_at	5R	5.121073e-03	203264_s_at	5R	5.69183e-03
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236696_at	5R	5.121073e-03	221647_s_at	5R	5.69183e-03
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204554_at	5R	5.121073e-03	205715_at	5R	6.005783e-03
204160_s_at	5R	5.121073e-03	225524_at	5R	6.046855e-03
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222453_at	5R	5.121073e-03	214557_at	5R	6.281202e-03
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222791_at	5R	5.121073e-03	227859_at	5R	6.602656e-03
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211202_s_at	5R	5.121073e-03	240449_at	5R	6.602656e-03
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210129_s_at	5R	5.121073e-03	217559_at	5R	6.602656e-03
202934_at	5R	5.121073e-03	222740_at	5R	6.602656e-03
20232.9_at	5R	5.121073e-03	220764_at	5R	6.602656e-03
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203232_s_at	5R	5.121073e-03	206335_at	5R	6.602656e-03
202840_at	5R	5.121073e-03	1553690_at	5R	6.602656e-03
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1558327_at	5R	5.121073e-03	1552719_at	5R	8.237354e-03
200999_s_at	5R	5.121073e-03	1570366_x_at	5R	8.237354e-03
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219070_s_at	5R	5.276903e-03	224368_s_at	5R	8.625599e-03
224378_x_at	5R	5.30165e-03	203620_s_at	5R	8.713224e-03
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1176

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202684 _s__at	5R	0.02
207464 _at	5R	0.02
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207335 _x_at	5S	0.02		203606 _at	5S	0.03
205739 _x_at	5S	0.02		207606 _s_at	5S	0.03
223156 _at	5S	0.02		219512 _at	5S	0.03
208913 _at	5S	0.02		217914 _at	5S	0.03
226151 _x_at	5S	0.02		201582 _at	5S	0.03
211240 _x_at	5S	0.02		202139 _at	5S	0.03
228690 _s_at	5S	0.02		201994 _at	5S	0.03
202682 _s_at	5S	0.02		218532 _s_at	5S	0.03
218334 _at	5S	0.02		201526 _at	5S	0.03
207856 _s_at	5S	0.02		202195 _s_at	5S	0.03
205292 _s_at	5S	0.02		1553847 _a_at	5S	0.03
218734 _at	5S	0.02		1552316 _a_at	5S	0.03
235241 _at	5S	0.02		205189 _s_at	5S	0.03
225451 _at	5S	0.02		201573 _s_at	5S	0.03
33646 _g_at	5S	0.02		223602 _at	5S	0.03
212516 _at	5S	0.02		209232 _s_at	5S	0.03
201846 _s_at	5S	0.02		1560339 _s_at	5S	0.03
225593 _at	5S	0.02		238722 _x_at	5S	0.03
226422 _at	5S	0.02		213735 _s_at	5S	0.03
226121 _at	5S	0.02		202872 _at	5S	0.03
225317 _at	5S	0.02		202750 _s_at	5S	0.03
201052 _s_at	5S	0.02		1558561 _at	5S	0.03
202704 _at	5S	0.02		225196 _s_at	5S	0.03
209197 _at	5S	0.02		230110 _at	5S	0.03
201738 _at	5S	0.02		213042 _s_at	5S	0.03
203832 _at	5S	0.02		208619 _at	5S	0.03
221484 _at	5S	0.02		206689 _x_at	5S	0.03
201222 _s_at	5S	0.02		203679 _at	5S	0.03
201753 _s_at	5S	0.02		1554451 _s_at	5S	0.03
219234 _x_at	5S	0.02		208120 _x_at	5S	0.03
205773 _at	5S	0.02		208612 _at	5S	0.03
202373 _s_at	5S	0.02		206684 _s_at	5S	0.03
224814 _at	5S	0.02		214662 _at	5S	0.03
204192 _at	5S	0.03		1570373 _at	5S	0.03
219997 _s_at	5S	0.03		223230 _at	5S	0.03
226479 _at	5S	0.03		219315 _s_at	5S	0.03
225210 _s_at	5S	0.03		226730 _s_at	5S	0.03
219359 _at	5S	0.03		206590 _x_at	5S	0.03
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220591 _s_at	5S	0.03		225187 _at	5S	0.03
224665 _at	5S	0.03		201557 _at	5S	0.03
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210347_s_at	5S	0.03		218920_at	5S	0.03
217336_at	5S	0.03		209225_x_at	5S	0.03
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57539_at	5S	0.03		202809_s_at	5S	0.03
219454_at	5S	0.03		225110_at	5S	0.03
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222714_s_at	5S	0.03		225957_at	5S	0.03
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211240_x_at	50	0.02
217301_x_at	50	0.02
44822_s__at	50	0.02
219335_at	50	0.02
211063_s_at	50	0.02
201557_at	50	0.02
203507_at	50	0.02
219351_at	50	0.02
203045_at	50	0.03
222989_s_at	50	0.03
218352_at	50	0.03
202650_s_at	50	0.03
204912_at	50	0.03
207358_x_at	50	0.03
37793_r_at	50	0.03
216194_s_at	50	0.03
233167_at	50	0.03
212542_s_at	50	0.03
235458_at	50	0.03
229624_at	50	0.03
223216_x_at	50	0.03
210236_at	50	0.03
211180_x_at	50	0.03
214455_at	50	0.03
214482_at	50	0.03
204805_s_at	50	0.03
219033_at	50	0.03
37986_at	50	0.03
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37145_at	50	0.03
239283_at	50	0.03
212860_at	50	0.03
208845__at	50	0.03
201034_at	50	0.03
225309__at	50	0.03
213446_s_at	50	0.03
212331_at	50	0.03
202412_s_at	50	0.03
204278_s_at	50	0.03
202258_s_at	50	0.03
222768_s_at	50	0.03
227844_at	50	0.03
209416_s_at	50	0.03
225799_at	50	0.03
204401_at	50	0.03

209595 _at	5U	0.03		209761 _s_at	50	0.04
209732 _at	5U	0.03		226730 _s_at	50	0.04
217122 _s_at	5Ü	0.03		201389 _at	50	0.04
203338 _at	5U	0.03		203827 jat	50	0.04
202435 _s_at	5U	0.03		204970 _s_at	50	0.04
218628 _at	5U	0.03		231779 _at	50	0.04
220521 _s_at	5U	0.03		203456 _at	50	0.04
218522 _s_at	5U	0.03		205061 _s_at	50	0.04
225630 _at	5U	0.03		200078 _s_at	5U	0.04
218640 _s_at	5U	0.03		224836 _at	50	0.04
219635 _at	5U	0.03		210288 _at	50	0.04
219151 _s_at	5U	0.03		237107 _at	50	0.04
223158 _s_at	5U	0.03		212484 _at	50	0.04
204420 _at	5U	0.03		200779 _at	50	0.04
217764 _s_at	5U	0.03		214696 _at	5U	0.04
212318 _at	5U	0.03		209099 _x_at	50	0.04
204065 _at	5U	0.03		204873 _at	50	0.04
212055 _at	5U	0.03		219248 _at	50	0.04
205967 _at	5Ü	0.03		219052 _at	50	0.04
219507 _at	5U	0.03		200072 _s_at	50	0.04
224480 _s_at	5U	0.03		209604 _s_at	5U	0.04
206792 _x_at	5U	0.03		204255 _s_at	50	0.04
221192 _x_at	5U	0.03		217299 _s_at	50	0.04
222258 _s_at	5U	0.03		219110 _at	50	0.04
212629 _s_at	5U	0.03		213191 _at	50	0.04
202577 _s_at	5U	0.03		204710 _s_at	50	0.04
209657 _s_at	5U	0.03		200630 _x_at	5V	1.79e-06
205294 _at	5Ü	0.03		201202 _at	5V	4.76e-06
203542 _s_at	5U	0.03		202295 _s_at	5V	4.99e-06
203048 _s_at	5U	0.03		210314 _x_at	5V	6.97e-06
220306 _at	5U	0.03		201002 _s_at	5V	7.04e-06
221670 _s_at	5U	0.03		205202 _at	5V	8.56e-06
221532 _s_at	5U	0.03		208705 _s_at	5V	1.3e-05
2.04131 _s_at	5U	0.03		212643 _at	5V	1.43e-05
202378 _s_at	5U	0.03		217414 _x_at	5V	1.74e-05
202437 _s_at	5U	0.03		217910 _x_at	5V	2.89e-05
218494 _s_at	5U	0.04		208248 _x_at	5V	2.91e-05
203182 _s_at	5U	0.04		211696 _x_at	5V	3.01e-05
202794 _at	5U	0.04		201586 _s_at	5V	3.05e-05
224395 _s_at	5U	0.04		217949 _s_at	5V	3.52e-05
205668 _at	5U	0.04		202596 _at	5V	3.87e-05
203152 _at	5U	0.04		204417 _at	5V	3.94e-05
222747 _s_at	5U	0.04		221419 _s_at	5V	3.98e-05
201627 _s_at	5U	0.04		200709 _at	5V	4.58e-05
202541 _at	5U	0.04		201891 _s_at	5V	4.66e-05
200759 _x_at	5U	0.04		211745 _x_at	5V	5.14e-05
205036 _at	5U	0.04		205669 _at	5V	5.81e-05
226099 _at	5U	0.04		219444 _at	5V	6.21e-05
214561 _at	5U	0.04		208909 _at	5V	6.24e-05
201136 _at	50	0.04		214414 _x_at	5V	6.37e-05
207687 _at	50	0.04		203430 _at	5V	6.59e-05
224790 _at	50	0.04		204665 _at	5V	6.71e-05
223887 _at	50	0.04		204351 _at	5V	6.86e-05
207121 _s_at	50	0.04		201128 _s_at	5V	7.09e-05
223767 _at	5U	0.04		204342 _at	5V	7.86e-05
201625 _s_at	5U	0.04		201119 _s_at	5V	7.86e-05
223482 _at	50	0.04		209142] _s_at	5V	8.17e-05
205882 _x_at	50	0.04		208728 _s_at	5V	8.24e-05
209536 _s_at	5U	0.04		216231 _s_at	5V	8.25e-05
200054 _at	50	0.04		201422 _at	5V	8.33e-05
203370 _s_at	50	0.04		200925 _at	5V	8.38e-05
203776 _at	5U	0.04		201631 _s_at	5V	8.51e-05
225788 _at	50	0.04		200738 _s_at	5V	8.52e-05
217499 _x_at	50	0.04		209140 _x_at	5V	8.69e-05

221952_x_at	5V	9.25e-05		200035_at	5V	2.77e-04
200 623_s_at	5V	9.84e-05		202891_at	5V	2.8e-04
200882_s_at	5V	9.91e-05		201552_at	5V	2.81e-04
212408_at	5V	1.06e-04		211404_s_at	5V	2.85e-04
209906_at	5V	1.06e-04		217918_at	5V	2.86e-04
200886_s_at	5V	1.08e-04		209034_at	5V	2.9e-04
217232_x_at	5V	1.09e-04		212262_at	5V	2.93e-04
200999_s_at	5V	1.09e-04		208855_s_at	5V	2.93e-04
209458_x_at	5V	1.12e-04		200001_at	5V	3.03e-04
219035_s_at	5V	1.16e-04		200652_at	5V	3.05e-04
200072_s_at	5V	1.17e-04		206656_s_at	5V	3.1e-04
200677_at	5V	1.17e-04		200967_at	5V	3.1e-04
211755_s_at	5V	1.23e-04		217852_s_at	5V	3.21e-04
201968_s_at	5V	1.23e-04		202125_s_at	5V	3.21e-04
209771_x_at	5V	1.25e-04		200782_at	5V	3.22e-04
208921_s_at	5V	1.25e-04		201090_x_at	5V	3.23e-04
212251_at	5V	1.26e-04		208702_x_at	5V	3.26e-04
209116_x_at	5V	1.31e-04		218648_at	5V	3.27e-04
201020_at	5V	1.33e-04		208736_at	5V	3.41e-04
202162_s_at	5V	1.34e-04		200735_x_at	5V	3.45e-04
203721_s_at	5V	1.35e-04		211070_x_at	5V	3.48e-04
204018_x_at	5V	1.37e-04		202917_s_ar	5V	3.48e-04
201426_s_at	5V	1.39e-04		205786_s_at	5V	3.52e-04
216379_x_at	5V	1.43e-04		221873_at	5V	3.57e-04
208689_s_at	5V	1.45e-04		212250_at	5V	3.6e-04
211571_s_at	5V	1.47e-04		212377_s_at	5V	3.68e-04
202951_at	5V	1.49e-04		220980_s_at	5V	3.69e-04
208642_s_at	5V	1.52e-04		210996_s_at	5V	3.69e-04
208643_s_at	5V	1.52e-04		201583_s_at	5V	3.7e-04
212543]_at	5V	1.56e-04		200918_s_at	5V	3.72e-04
201894_s_at	5V	1.57e-04		207157_s_at	5V	3.76e-04
2C0030_s_at	5V	1.64e-04		200743_s_at	5V	3.78e-04
211609_x_at	5V	1.74e-04		210638_s_at	5V	3.79e-04
209369_at	5V	1.8e-04		205690_s_at	5V	3.81e-04
211699_x_at	5V	1.81e-04		203922_s_at	5V	3.82e-04
202447_at	5V	1.83e-04		221249_s_at	5V	3.82e-04
201303_at	5V	1.85e-04		206621_s_at	5V	3.83e-04
208674_x_at	5V	1.88e-04		217764_s_at	5V	3.84e-04
210149_s_at	5V	1.96e-04		200801_x_at	5V	3.86e-04
205865_at	5V	1.97e-04		203885_at	5V	3.88e-04
201463_s_at	5V	2.02e-04		201098_at	5V	3.96e-04
203729_at	5V	2.06e-04		203274_at	5V	3.98e-04
212242_at	5V	2.11e-04		216295_s_at	5V	3.99e-04
201174_s_at	5V	2.11e-04		212184_s_at	5V	3.99e-04
213160_at	5V	2.13e-04		218514_at	5V	4.03e-04
217762_s_at	5V	2.14e-04		218773_s_at	5V	4.07e-04
208746_x_at	5V	2.15e-04		201193_at	5V	4.09e-04
203855_at	5V	2.25e-04		201225_s_at	5V	4.14e-04
201375_s_at	5V	2.35e-04		212264_s_at	5V	4.16e-04
213554_s_at	5V	2.38e-04		209479_at	5V	4.16e-04
200055_at	5V	2.42e-04		217747_s_at	5V	4.19e-04
201285_at	5V	2.45e-04		216041_x_at	5V	4.24e-04
200009_at	5V	2.46e-04		208612_at	5V	4.27e-04
203254_s_at	5V	2.51e-04		202244_at	5V	4.36e-04
215646_s_at	5V	2.61e-04		212320_at	5V	4.43e-04
221269_s_at	5V	2.64e-04		212740_at	5V	4.45e-04
213932_x_at	5V	2.66e-04		208120_x_at	5V	4.49e-04
AFFX-hum_alu_at	5V	2.67e-04		200981_x_at	5V	4.52e-04
208703_s_at	5V	2.67e-04		200742_s_at	5V	4.59e-04
200075_s_at	5V	2.67e-04		201259_s_at	5V	4.68e-04
212227_x_at	5V	2.71e-04		202696_at	5V	4.8e-04
218419_s_at	5V	2.73e-04		218108_at	5V	4.81e-04
217736_s_at	5V	2.75e-04		217927_at	5V	4.81e-04
				200640_at	5V	4.83e-04

203529_at	5V	4?85e-04
203075_at	5V	4.95e-04
200682_s_at	5V	4.97e-04
203011_at	5V	5.01e-04
219191_s_at	5V	5.09e-04
201061_s_at	5V	5.11e-04
203925_at	5V	5.13e-04
202121_s_at	5V	5.15e-04
203508_at	5V	5.18e-04
200693_at	5V	5.25e-04
213453_x_at	5V	5.3e-04
200639_s_at	5V	5.39e-04
208641_s_at	5V	5.41e-04
216988_s_at	5V	5.45e-04
200048_s_at	5V	5.46e-04
208739_x_at	5V	5.5e-04
200006_at	5V	5.54e-04
200864_s_at	5V	5.57e-04
217978_s_at	5V	5.61e-04
201105_at	5V	5.62e-04
213735_s_at	5V	5.63e-04
200650_s_at	5V	5.64e-04
213526_s_at	5V	5.65e-04
200660_at	5V	5.71e-04
212168_at	5V	5.75e-04
200804_at	5V	5.77e-04
206111_at	5V	5.8e-04
202298_at	5V	5.82e-04
203370_s_at	5V	5.83e-04
201136_at	5V	5.83e-04
201302_at	5V	5.84e-04
211495_x_at	5V	5.88e-04
202^20_at	5V	5.89e-04
209539_at	5V	5.92e-04
217869_at	5V	6.03e-04
203320_at	5V	6.03e-04
218213_s_at	5V	6.04e-04
201060_x_at	5V	6.12e-04
200860_s_at	5V	6.23e-04
208263_at	5V	6.26e-04
209224_s_at	5V	6.27e-04
218273_s_at	5V	6.31e-04
213535_s_at	5V	6.34e-04
216306_x_at	5V	6.38e-04
211921_x_at	5V	6.44e-04
217939_s_at	5V	6.46e-04
200008_s_at	5V	6.52e-04
201698_s_at	5V	6.52e-04
201794_s_at	5V	6.53e-04
208634_s_at	5V	6.59e-04
212716_s_at	5V	6.6e-04
212359_s_at	5V	6.67e-04
205898_at	5V	6.75e-04
206559_x_at	5V	6.8e-04
201012_at	5V	6.82e-04
208647_at	5V	6.86e-04
200611_s_at	5V	6.88e-04
208948_s_at	5V	6.89e-04
201047_x_at	5V	6.89e-04
208812_x_at	5V	6.9e-04
200680_x_at	5V	6.9e-04
208730_x_at	5V	6.93e-04
210371_s_at	5V	6.94e-04
201816_s_at	5V	7.0e-04
200000_s_at	5V	7.05e-04
202427_s_at	5V	7.07e-04
200046_at	5V	7.09e-04
218263_s_at	5V	7.23e-04
203471_s_at	5V	7.3e-04
200019_s_at	5V	7.31e-04
202442_at	5V	7.39e-04
201553_s_at	5V	7.39e-04
211787_s_at	5V	7.4e-04
201351_s_at	5V	7.41e-04
201470_at	5V	7.47e-04
208821_at	5V	7.56e-04
218506_x_at	5V	7.59e-04
202859_x_at	5V	7.66e-04
214430_at	5V	7.79e-O4
217931_at	5V	7.81e-04
211760_s_at	5V	7.84e-04
209499_x_at	5V	7.92e-04
201954_at	5V	7.99e-04
217743_s_at	5V	8.0e-04
218034_at	5V	8.01e-04
221339_at	5V	8.01e-04
211678_s_at	5V	8.03e-04
219014_at	5V	8.04e-04
208628_s_at	5V	8.14e-04
200007_at	5V	8.32e-04
215313_x_at	5V	8.36e-04
201318_s_at	5V	8.36e-04
208818_s_at	5V	8.38e-04
200043_at	5V	8.49e-04
53912_at	5V	8.52e-04
210532_s_at	5V	8.53e-04
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202377_at	5V	8.7e-04
200713_s_at	5V	8.7e-04
202854_at	5V	8.81e-04
203097_s_at	5V	8.82e-04
201859_at	5V	8.9e-04
218352_at	5V	8.95e-04
210453_x_at	5V	8.97e-04
211072_x_at	5V	9.03e-04
211270_x_at	5V	9.24e-04
200657_at	5V	9.26e-04
213646_x_at	5V	9.33e-04
213151_s_at	5V	9.37e-04
200971_s_at	5V	9.39e-04
218011_at	5V	9.48e-04
209148_at	5V	9.49e-04
217794_at	5V	9.52e-04
200857__s_at	5V	9.55e-04
200068_s_at	5V	9.56e-04
200663_at	5V	9.57e-04
215832_x_at	5V	9.59e-04
206174_s_at	5V	9.59e-04
203538_at	5V	9.62e-04
217768_at	5V	9.66e-04
216274_s_at	5V	9.71e-04
201312_s_at	5V	9.72e-04
200966_x_at	5V	9.76e-04
217865_at	5V	9.81e-04
201944_at	5V	9.81e-04
212519_at	5V	9.84e-04

204185_x_at	5V	9.84e-04	208319_s_at	5V	1.383061e-03
201738_at	5V	9.89e-04	201722_s_at	5V	1.402307e-03
208668_x_at	5V	9.91e-04	201588_at	5V	1.413298e-03
219731_at	5V	9.94e-04	204509_at	5V	1.416925e-03
214315_x_at	5V	9.94e-04	202961_s_at	5V	1.422271e-03
202829_s_at	5V	1.023652e-03	202325_s_at	5V	1.42819e-03
200011_s_at	5V	1.026036e-03	207335_x_at	5V	1.433166e-03
212267_at	5V	1.033557e-03	220288_at	5V	1.442275e-03
200632_s_at	5V	1.036596e-03	200053_at	5V	1.444585e-03
200876_s_at	5V	1.049181e-03	33323_r_at	5V	1.463694e-03
200701_at	5V	1.05268e-03	221428_s_at	5V	1.465937e-03
205335_s_at	5V	1.058876e-03	218280_x_at	5V	1.47091e-03
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204093_at	5V	1.068255e-03	215038_s_at	5V	1.485762e-03
203667_at	5V	1.077869e-03	208308_s_at	5V	1.489834e-03
201980_s_at	5V	1.080145e-03	AFFX-HUMGAPDH/		
208704_x_at	5V	1.097441e-03	M33197	5V	1.498389e-03
218217_at	5V	1.098457e-03	211746_x_at	5V	1.501348e-03
200822_x_at	5V	1.100036e-03	202591_s_at	5V	1.510539e-03
200893_at	5V	1.101688e-03	209476_at	5V	1.511562e-03
208313_s_at	5V	1.11826e-03	206245_s_at	5V	1.512981e-03
36019_at	5V	1.121338e-03	216993_s_at	5V	1.533452e-03
266_s_at	5V	1.122233e-03	211961_s_at	5V	1.535388e-03
217958_at	5V	1.125725e-03	203137_at	5V	1.544512e-03
207974_s_at	5V	1.131956e-03	202974_at	5V	1.546337e-03
218387_s_at	5V	1.139328e-03	201441_at	5V	1.554838e-03
202583_s_at	5V	1.149523e-03	207507_s_at	5V	1.555671e-03
201118_at	5V	1.157098e-03	202300_at	5V	1.58158e-03
204789_at	5V	1.160315e-03	214501_s_at	5V	1.597843e-03
207508_at	5V	1.172461e-03	201216_at	5V	1.599499e-03
213708_s_at	5V	1.17279e-03	208517_x_at	5V	1.61793e-03
202164_s_at	5V	1.179375e-03	205292_s_at	5V	1.621497e-03
202096_s_at	5V	1.179608e-03	200073_s_at	5V	1.625777e-03
209511_at	5V	1.184401e-03	205480_s_at	5V	1.626513e-03
202432_at	5V	1.187845e-03	200083_at	5V	1.629916e-03
201400_at	5V	1.199786e-03	202060_at	5V	1.634774e-03
200634_at	5V	1.201616e-03	213079_at	5V	1.63606e-03
200614_at	5V	1.216596e-03	206687_s_at	5V	1.649701e-03
217801_at	5V	1.219006e-03	204362_at	5V	1.657973e-03
200037_s_at	5V	1.22029e-03	212330_at	5V	1.661244e-03
203133_at	5V	1.224386e-03	202173_s_at	5V	1.666959e-03
210293_s_at	5V	1.226831e-03	208898_at	5V	1.667379e-03
202603_at	5V	1.228814e-03	200964_at	5V	1.667954e-03
203332_s_at	5V	1.231808e-03	217766_s_at	5V	1.66798e-03
207992_s_at	5V	1.24075e-03	218348_s_at	5V	1.672478e-03
212697_at	5V	1.264156e-03	221816_s_at	5V	1.678825e-03
31826_at	5V	1.273445e-03	60471_at	5V	1.703797e-03
213622_at	5V	1.275489e-03	218190_s_at	5V	1.704106e-03
214882_s_at	5V	1.280464e-03	213867_x_at	5V	1.704574e-03
214894_x_at	5V	1.281473e-03	202876_s_at	5V	1.709698e-03
202299_s_at	5V	1.284487e-03	210406_s_at	5V	1.716189e-03
213246_at	5V	1.291187e-03	217845_x_at	5V	1.719726e-03
200772_x_at	5V	1.292062e-03	203104_at	5V	1.720418e-03
210739_x_at	5V	1.303047e-03	71933_at	5V	1.729635e-03
207585_s_at	5V	1.305591e-03	200651_at	5V	1.740608e-03
212869_x_at	5V	1.30942e-03	220731_s_at	5V	1.746822e-03
200618_at	5V	1.309726e-03	200914_x_at	5V	1.759602e-03
208652_at	5V	1.335545e-03	218603_at	5V	1.760773e-03
211058_x_at	5V	1.351178e-03	200777_s_at	5V	1.763858e-03
217720_at	5V	1.358085e-03	203003_at	5V	1.769053e-03
218917_s_at	5V	1.367439e-03	208742_s_at	5V	1.775524e-03
200678_x_at	5V	1.37308e-03	212130_x_at	5V	1.777786e-03
206834_at	5V	1.37484e-03	201499_s_at	5V	1.780817e-03
201338_x_at	5V	1.376131e-03	217724_at	5V	1.791331e-03

204118_at	5V	1.791415e-03
221741_s_at	5V	1.794756e-03
204249_s_at	5V	1.795969e-03
211858_x_at	5V	1.796914e-03
202243_s_at	5V	1.79904e-03
201384_s_at	5V	1.807732e-03
209685_s_at	5V	1.826065e-03
202189_x_at	5V	1.836132e-03
209500_x_at	5V	1.840471e-03
213571_s_at	5V	1.842035e-03
213011_s_at	5V	1.842228e-03
219049_at	5V	1.843496e-03
217883_at	5V	1.880932e-03
217954_s_at	5V	1.881194e-03
200778_s_at	5V	1.881648e-03
200780_x_at	5V	1.884675e-03
200748_s_at	5V	1.885584e-03
214467_at	5V	1.886001e-03
201500_s_at	5V	1.896909e-03
205882_x_at	5V	1.899678e-03
201724_s_at	5V	1.900903e-03
35150_at	5V	1.901554e-03
215158_s_at	5V	1.921745e-03
203745_at	5V	1.92218e-03
217752_s_at	5V	1.925104e-03
217746_s_at	5V	1.929956e-03
203323_at	5V	1.946378e-03
216526_x_at	5V	1.958611e-03
201443_s_at	5V	1.960255e-03
218334_at	5V	1.962135e-03
208698_s_at	5V	1.965683e-03
201558_at	5V	1.974767e-03
204480_s_at	5V	1.974846e-03
202657_s_at	5V	1.981263e-03
201687_s_at	5V	2.008314e-03
218041_x_at	5V	2.039703e-03
208669_s_at	5V	2.044821e-03
220342_x_at	5V	2.055806e-03
221474_at	5V	2.056899e-03
203788_s_at	5V	2.056921e-03
208654_s_at	5V	2.058394e-03
209187_at	5V	2.069054e-03
200941_at	5V	2.073245e-03
209852_x_at	5V	2.077659e-03
203943_at	5V	2.078765e-03
203232_s_at	5V	2.079322e-03
207320_x_at	5V	2.082518e-03
213318_s_at	5V	2.0834e-03
200830_at	5V	2.099569e-03
208873_s_at	5V	2.112776e-03
202471_s_at	5V	2.120646e-03
219111_s_at	5V	2.12496e-03
211749_s_at	5V	2.129263e-03
217773_s_at	5V	2.136785e-03
214435_x_at	5V	2.137669e-03
208882_s_at	5V	2.158038e-03
202118_s_at	5V	2.161975e-03
202546_at	5V	2.163614e-03
204605_at	5V	2.167644e-03
201345_s_at	5V	2.170215e-03
200881_s_at	5V	2.178392e-03
203960_s_at	5V	2.19287e-03
203630_s_at	5V	2.200839e-03
207616_s_at	5V	2.205368e-03

204370_at	5V	2.216694e-03
200097_s_at	5V	2.220361e-03
204532_x_at	5V	2.223283e-03
37232_at	5V	2.237489e-03
210840_s_at	5V	2.257246e-03
201322_at	5V	2.266669e-03
201695_s_at	5V	2.271887e-03
217356_s_at	5V	2.27459e-03
218364_at	5V	2.278848e-03
218316_at	5V	2.280931e-03
202428_x_at	5V	2.284017e-03
201590_x_at	5V	2.285737e-03
202469_s_at	5V	2.286734e-03
200808_s_at	5V	2.287866e-03
200654_at	5V	2.290288e-03
202272_s_at	5V	2.29138e-03
203583_at	5V	2.309479e-03
211271_x_at	5V	2.310015e-03
201863_at	5V	2.31837e-03
203359_s_at	5V	2.326305e-03
209384_at	5V	2.333959e-03
210648_x_at	5V	2.345919e-03
217742_s_at	5V	2.354475e-03
203286_at	5V	2.355524e-03
200828_s_at	5V	2.37717e-03
213572_s_at	5V	2.382317e-03
202582_s_at	5V	2.389578e-03
207821_s_at	5V	2.391039e-03
200853_at	5V	2.394492e-03
207755_at	5V	2.411907e-03
203605_at	5V	2.41914e-03
208617_s_at	5V	2.433422e-03
213545_x_at	5V	2.435432e-03
201146_at	5V	2.443542e-03
202503_s_at	5V	2.45533e-03
212584_at	5V	2.458241e-03
200059_s_at	5V	2.458414e-03
200818_at	5V	2.481386e-03
202678_at	5V	2.493551e-03
208949_s_at	5V	2.501459e-03
216221_s_at	5V	2.503531e-03
201807_at	5V	2.526361e-03
203113_s_at	5V	2.529512e-03
201360_at	5V	2.54394e-03
221381_s_at	5V	2.552318e-03
219112_at	5V	2.561754e-03
212371_at	5V	2.564795e-03
200791_s_at	5V	2.568665e-03
211505_s_at	5V	2.579285e-03
200848_at	5V	2.593313e-03
201899_s_at	5V	2.596366e-03
201068_s_at	5V	2.60772e-03
201390_s_at	5V	2.61562e-03
214428_x_at	5V	2.61647e-03
212335_at	5V	2.626059e-03
213154_s_at	5V	2.627581e-03
218093_s_at	5V	2.637176e-03
200736_s_at	5V	2.651125e-03
201091_s_at	5V	2.670448e-03
208410_x_at	5V	2.675694e-03
201172_x_at	5V	2.688248e-03
212896_at	5V	2.701391e-03
209296_at	5V	2.704093e-03
200800_s_at	5V	2.704854e-03

200863_s_at	5V	2.717112e-03	200765_x_at	5V	3.35948e-03
209103_s_at	5V	2.723283e-03	204361_s_at	5V	3.364799e-03
213988_s_at	5V	2.735068e-03	218205_s_at	5V	3.377615e-03
200629_at	5V	2.742192e-03	203392_s_at	5V	3.379239e-03
211275_s_at	5V	2.752025e-03	217020_at	5V	3.384899e-03
212159_x_at	5V	2.752523e-03	201471_s_at	5V	3.397508e-03
219547_at	5V	2.764643e-03	211383_s_at	5V	3.40437e-03
209949_at	5V	2.765011e-03	208857_s_at	5V	3.410052e-03
202484_s_at	5V	2.798115e-03	203909_at	5V	3.429495e-03
206380_s_at	5V	2.802572e-03	217763_s_at	5V	3.43496e-03
200990_at	5V	2.822836e-03	208640_at	5V	3.463284e-03
202836_s_at	5V	2.839321e-03	221443_x_at	5V	3.477106e-03
220235_s_at	5V	2.841993e-03	201317_s_at	5V	3.48673e-03
201358_s_at	5V	2.852358e-03	202393_s_at	5V	3.491786e-03
218030_at	5V	2.865646e-03	212552_at	5V	3.496125e-03
218738_s_at	5V	2.867786e-03	209061_at	5V	3.532876e-03
208655_at	5V	2.879525e-03	217943_s_at	5V	3.546526e-03
213366_x_at	5V	2.880494e-03	201840_at	5V	3.54656e-03
201494_at	5V	2.889012e-03	221059_s_at	5V	3.568208e-03
210312_s_at	5V	2.896794e-03	220001_at	5V	3.568953e-03
222065_s_at	5V	2.897066e-03	204646_at	5V	3.581851e-03
204224_s_at	5V	2.908283e-03	201389_at	5V	3.58629e-03
220948_s_at	5V	2.919299e-03	212199_at	5V	3.593199e-03
201600_at	5V	2.927153e-03	203973_s_at	5V	3.599306e-03
202141_s_at	5V	2.92748e-03	216899_s_at	5V	3.616389e-03
222235_s_at	5V	2.94811e-03	117_at	5V	3.617607e-03
200859_x_at	5V	2.958705e-03	201331_s_at	5V	3.619158e-03
211075_s_at	5V	2.970668e-03	200746_s_at	5V	3.621751e-03
219732_at	5V	2.981817e-03	201908_at	5V	3.623834e-03
201472_at	5V	2.987322e-03	200644_at	5V	3.62471e-03
202131_s_at	5V	2.988927e-03	200058_s_at	5V	3.625443e-03
211759_x_at	5V	2.989266e-03	212355_at	5V	3.633557e-03
212449_s_at	5V	2.998098e-03	214687_x_at	5V	3.650731e-03
214895_s_at	5V	3.005492e-03	221619_s_at	5V	3.652193e-03
218249_at	5V	3.026167e-03	211509_s_at	5V	3.657042e-03
213475_s_at	5V	3.034323e-03	201078_at	5V	·3.720655e-03
203021_at	5V	3.0354e-03	213399_x_at	5V	3.721457e-03
210716_s_at	5V	3.061868e-03	221478_at	5V	3.721972e-03
221804_s_at	5V	3.065419e-03	208771_s_at	5V	3.724807e-03
201534_s_at	5V	3.069091e-03	209099_x_at	5V	3.751642e-03
221666_s_at	5V	3.095475e-03	217836_s_at	5V	3.752424e-03
213923_at	5V	3.101933e-03	201363_s_at	5V	3.758676e-03
202119_s_at	5V	3.12551e-03	200679_x_at	5V	3.760311e-03
208620_at	5V	3.159581e-03	200943_at	5V	3.771955e-03
212100_s_at	5V	3.166618e-03	217882_at	5V	3.778604e-03
215049_x_at	5V	3.178347e-03	219938_s_at	5V	3.784773e-03
217717_s_at	5V	3.192366e-03	200976_s_at	5V	3.796341e-03
202038_at	5V	3.19642e-03	32091_at	5V	3.801961e-03
221495_s_at	5V	3.198007e-03	221190_s_at	5V	3.814518e-03
218109_s_at	5V	3.215814e-03	217748_at	5V	3.815146e-03
212268_at	5V	3.219361e-03	203403_s_at	5V	3.821264e-03
202077_at	5V	3.234918e-03	201696_at	5V	3.838936e-03
202702_at	5V	3.23534e-03	221214_s_at	5V	3.840927e-03
201271_s_at	5V	3.238139e-03	208781_x_at	5V	3.84695e-03
206139_at	5V	3.245447e-03	205627_at	5V	3.848509e-03
213198_at	5V	3.259391e-03	204254_s_at	5V	3.851117e-03
200740_s_at	5V	3.284892e-03	214574_x_at	5V	3.855322e-03
208627_s_at	5V	3.287181e-03	219071_x_at	5V	3.883284e-03
212802_s_at	5V	3.306068e-03	214578_s_at	5V	3.889646e-03
204500_s_at	5V	3.31498e-03	201483_s_at	5V	3.890745e-03
218134_s_at	5V	3.326938e-03	201743_at	5V	3.892899e-03
218627_at	5V	3.334389e-03	208091_s_at	5V	3.896488e-03
207842_s_at	5V	3.340907e-03	220005_at	5V	3.907672e-03
200998_s_at	5V	3.354482e-03	201444_s_at	5V	3.91492e-03

Probe		Value	Probe		Value
201576_s_at	5V	379164 92e-03	203379_at	5V	4.666669e-03
202413_s_at	5V	3.951822e-03	212610_at	5V	4.669232e-03
201726_at	5V	3.961739e-03	207573_x_at	5V	4.685717e-03
200910_at	5V	3.97621e-03	218139_s_at	5V	4.710271e-03
201518_at	5V	3.983569e-03	204613_at	5V	4.717544e-03
209146_at	5V	3.991429e-03	221808_at	5V	4.731687e-03
201760_s_at	5V	3.99314e-03	204116_at	5V	4.737679e-03
205644_s_at	5V	3.996454e-03	201209_at	5V	4.748679e-03
57516_at	5V	4.014433e-03	209249_s_at	5V	4.749408e-03
201563_at	5V	4.020958e-03	203184_at	5V	4.752157e-03
204892_x_at	5V	4.02543e-03	200760_s_at	5V	4.775277e-03
202593_s_at	5V	4.02776e-03	217811_at	5V	4.790441e-03
202511_s_at	5V	4.033208e-03	202753_at	5V	4.81134e-03
201140_s_at	5V	4.034003e-03	205297_s_at	5V	4.818936e-03
202919_at	5V	4.040991e-03	201780_s_at	5V	4.82578e-03
202090_s_at	5V	4.057852e-03	202334_s_at	5V	4.840431e-03
201651_s_at	5V	4.059593e-03	212301_at	5V	4.847939e-03
218360_at	5V	4.079636e-03	216304_x_at	5V	4.865761e-03
213491_x_at	5V	4.083925e-03	203306_s_at	5V	4.874095e-03
211975_at	5V	4.109276e-03	201366_at	5V	4.888641e-03
201568_at	5V	4.114706e-03	217719_at	5V	4.902113e-03
214752_x_at	5V	4.138428e-03	200065_s_at	5V	4.903491e-03
201273_s_at	5V	4.163692e-03	202521_at	5V	4.908756e-03
200728_at	5V	4.165573e-03	201200_at	5V	4.909014e-03
210951_x_at	5V	4.172032e-03	211972_x_at	5V	4.916324e-03
208290_s_at	5V	4.176042e-03	AFFX-HUMGAPDH/		
207654_x_at	5V	4.189716e-03	M33197	5V	4.945559e-03
213503_x_at	5V	4.208213e-03	208770_s_at	5V	4.946907e-03
201973_s_at	5V	4.244289e-03	201132_at	5V	4.969211e-03
209357_at	5V	4.262248e-03	211729_x_at	5V	4.973201e-03
203690_at	5V	4.263514e-03	218167_at	5V	5.004444e-03
201097_s_at	5V	4.271038e-03	207466_at	5V	5.00785e-03
203185_at	5V	4.27424e-03	217898_at	5V	5.018724e-03
209388_at	5V	4.28127e-03	213404_s_at	5V	5.038106e-03
214843_s_at	5V	4.281465e-03	218716_x_at	5V	5.049273e-03
207132_x_at	5V	4.283208e-03	203460_s_at	5V	5.053383e-03
212606_at	5V	4.295321e-03	207630_s_at	5V	5.06216e-03
222199_s_at	5V	4.295805e-03	209155_s_at	5V	5.063521e-03
205812_s_at	5V	4.311904e-03	205172_x_at	5V	5.070832e-03
203484_at	5V	4.318694e-03	217835_x_at	5V	5.080768e-03
205013_s_at	5V	4.322487e-03	200779_at	5V	5.081684e-03
206200_s_at	5V	4.325683e-03	201804_x_at	5V	5.088394e-03
206302_s_at	5V	4.364153e-03	218137_s_at	5V	5.094577e-03
214268_s_at	5V	4.377796e-03	213418_at	5V	5.097031e-03
207697_x_at	5V	4.40419e-03	202026_at	5V	5.097639e-03
121_at	5V	4.421451e-03	210386_s_at	5V	5.101497e-03
201222_s_at	5V	4.422303e-03	200723_s_at	5V	5.106988e-03
209734_at	5V	4.454545e-03	200044_at	5V	5.130456e-03
217769_s_at	5V	4.457869e-03	201086_x_at	5V	5.137277e-03
218078_s_at	5V	4.460422e-03	211978_x_at	5V	5.14963e-03
217995_at	5V	4.4726e-03	210356_x_at	5V	5.170749e-03
200594_x_at	5V	4.477222e-03	222231_s_at	5V	5.172023e-03
208296_x_at	5V	4.477249e-03	210360_s_at	5V	5.175314e-03
209514_s_at	5V	4.528289e-03	201788_at	5V	5.182575e-03
217803_at	5V	4.530447e-03	219549_s_at	5V	5.185982e-03
211784_s_at	5V	4.541397e-03	219449_s_at	5V	5.191855e-03
221154_at	5V	4.54781e-03	202021_x_at	5V	5.226182e-03
202990_at	5V	4.550109e-03	203739_at	5V	5.253909e-03
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210616_s_at	5V	4.555601e-03	210969_at	5V	5.275966e-03
221472_at	5V	4.621703e-03	200096_s_at	5V	5.299516e-03
202531_at	5V	4.641985e-03	200833_s_at	5V	5.302765e-03
200975_at	5V	4.64977e-03	202215_s_at	5V	5.30722e-03
201453_x_at	5V	4.662967e-03	205263_at	5V	5.320228e-03

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217864_s_at	5V	5.377026e-03
208684_at	5V	5.378282e-03
200052_s_at	5V	5.385867e-03
217144_at	5V	5.390262e-03
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202100_at	5V	5.433522e-03
209166_s_at	5V	5.439528e-03
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T l176 9 x_at	~5V	0 Toi
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201001 _s_at	5V	0.01
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201627 _s_at	5V	0.01
203743 _s_at	5V	0.01
208708 _x_at	5V	0.01
218092 _s_at	5V	0.01
205726 _at	5V	0.01
207168 _s_at	5V	0.01
216194 _s_at	5V	0.01
201425 _at	5V	0.01
211178 _s_at	5V	0.01
203907 _s_at	5V	0.01
208854 _s_at	5V	0.01
218250 _s_at	5V	0.01
201700 _at	5V	0.01
202144 _s_at	5V	0.01
203966 _s_at	5V	0.01
217751 _at	5V	0.01
210338 _s_at	5V	0.01
211922 _s_at	5V	0.01
222077 _s_at	5V	0.01
218999 _at	5V	0.01
201237 _at	5V	0.01
219079 _at	5V	0.01

218463 _s_at	5V	0.01
204246 _s_at	5V	0.01
212782 _x_at	5V	0.01
201336 _at	5V	0.01
212826 _s_at	5V	0.01
212410 _at	5V	0.01
201778 _s_at	5V	0.01
214369 _s_at	5V	0.01
204466 _s_at	5V	0.01
206219 _s_at	5V	0.01
202197 _at	5V	0.01
201506 _at	5V	0.01
208974 _x_at	5V	0.01
2OIIO4 _x_at	5V	0.01
200017 _at	5V	0.01
209172 _s_at	5V	0.01
213915 _at	5V	0.01
200691 _s_at	5V	0.01
203415 _at	5V	0.01
215948 _x_at	5V	0.01
212661 _x_at	5V	0.01
210793 _s_at	5V	0.01
201290 _at	5V	0.01
202860 _at	5V	0.01
201546 _at	5V	0.01
201007 _at	5V	0.01
208089 _s_at	5V	0.01
218211 _s_at	5V	0.01
204297 _at	5V	0.01
203041 _s_at	5V	0.01
213918 _s_at	5V	0.01
201412 _at	5V	0.01
218032 _at	5V	0.01
210395 _x_at	5V	0.01
201647 _s_at	5V	0.01
217009 _at	5V	0.01
202745 _at	5V	0.01
209835 _x_at	5V	0.01
216241 _s_at	5V	0.01
203051 _at	5V	0.01
208819 _at	5V	0.01
217815 _at	5V	0.01
211889 _x_at	5V	0.01
211742 _s_at	5V	0.01
210176 _at	5V	0.01
200087 _s_at	5V	0.01
209105 _at	5V	0.01
217905 _at	5V	0.01
218191 _s_at	5V	0.01
209882 _at	5V	0.01
218181 _s_at	5V	0.01
206900 _x_at	5V	0.01
208878 _s_at	5V	0.01
201165 _s_at	5V	0.01
212211 _at	5V	0.01
218371 _s_at	5V	0.01
212863 _x_at	5V	0.01
200766 _at	5V	0.01
206542 _s_at	5V	0.01
207857 _at	5V	0.01
207597 _at	5V	0.01
208360 _s_at	5V	0.01
201293 _x_at	5V	0.01
213056 _at	5V	0.01

217825_s_at	5V	0.01		35201_at	5V	0.01
209879_at	5V	0.01		202695_s_at	5V	0.01
220603_s_at	5V	0.01		219467_at	5V	0.01
208651_x_at	5V	0.01		209288_s_at	5V	0.01
212764_at	5V	0.01		201814_at	5V	0.01
200996_at	5V	0.01		212586_at	5V	0.01
220050_at	5V	0.01		219975_x_at	5V	0.01
57163_at	5V	0.01		212118_at	5V	0.01
218659_at	5V	0.01		218668_s_at	5V	0.01
212050_at	5V	0.01		202833_s_at	5V	0.01
212208_at	5V	0.01		212273_x_at	5V	0.01
203102_s_at	5V	0.01		217950_at	5V	0.01
205575_at	5V	0.01		217823_s_at	5V	0.01
202888_s_at	5V	0.01		221511_x_at	5V	0.01
36564_at	5V	0.01		204640_s_at	5V	0.01
211806_s_at	5V	0.01		209619_at	5V	0.01
208833_s_at	5V	0.01		209026_x_at	5V	0.01
201672_s_at	5V	0.01		201227_s_at	5V	0.01
219492_at	5V	0.01		200890_s_at	5V	0.01
216250_s_at	5V	0.01		200726_at	5V	0.01
209066_x_at	5V	0.01		203376_at	5V	0.01
206332_s_at	5V	0.01		206773_at	5V	0.01
213836_s_at	5V	0.01		220416_at	5V	0.01
202031_s_at	5V	0.01		203006_at	5V	0.01
203136_at	5V	0.01		201643_x_at	5V	0.01
202845_s_at	5V	0.01		202646_s_at	5V	0.01
202659_at	5V	0.01		214590_s_at	5V	0.01
214665_s_at	5V	0.01		209449_at	5V	0.01
213396_s_at	5V	0.01		210119_at	5V	0.01
202313_at	5V	0.01		203528_at	5V	0.01
218323_at	5V	0.01		212329_at	5V	0.01
218020_s_at	5V	0.01		218761_at	5V	0.01
201515_s_at	5V	0.01		200027_at	5V	0.01
214512_s_at	5V	0.01		212817_at	5V	0.01
212369_at	5V	0.01		202068_s_at	5V	0.01
216262_s_at	5V	0.01		208095_s_at	5V	0.01
219259_at	5V	0.01		218556_at	5V	0.01
220419_s_at	5V	0.01		213883_s_at	5V	0.01
216054_x_at	5V	0.01		201192_s_at	5V	0.01
204949_at	5V	0.01		207358_x_at	5V	0.01
205189_s_at	5V	0.01		202008_s_at	5V	0.01
201231_s_at	5V	0.01		207677_s_at	5V	0.01
218797_s_at	5V	0.01		211337_s_at	5V	0.01
217887_s_at	5V	0.01		201827_at	5V	0.01
203304_at	5V	0.01		203992_s_at	5V	0.01
214988_s_at	5V	0.01		218700_s_at	5V	0.01
219599_at	5V	0.01		201010_s_at	5V	0.01
204702_s_at	5V	0.01		200754_x_at	5V	0.01
212440_at	5V	0.01		200023_s_at	5V	0.01
202296_s_at	5V	0.01		215773_x_at	5V	0.01
208828_at	5V	0.01		211676_s_at	5V	0.01
213292_s_at	5V	0.01		203598_s_at	5V	0.01
218373_at	5V	0.01		212322_at	5V	0.01
212657_s_at	5V	0.01		203836_s_at	5V	0.01
212561_at	5V	0.01		215836_s_at	5V	0.01
220147_s_at	5V	0.01		209063_x_at	5V	0.01
204010_s_at	5V	0.01		212602_at	5V	0.01
200078_s_at	5V	0.01		200004_at	5V	0.01
211366_x_at	5V	0.01		201595_s_at	5V	0.01
209492_x_at	5V	0.01		207980_s_at	5V	0.01
201433_s_at	5V	0.01		218588_s_at	5V	0.01
221485_at	5V	0.01		215452_x_at	5V	0.01
218519_at	5V	0.01		212460_at	5V	0.01
220741_s_at	5V	0.01		202642_s_at	5V	0.01

218998_at	5V	0.01	201004_at	5V	0.01
201023_at	5V	0.01	201171_at	5V	0.01
218495_at	5V	0.01	208877_at	5V	0.01
202194_at	5V	0.01	217728_at	5V	0.01
218467_at	5V	0.01	217984_at	5V	0.01
210774_s_at	5V	0.01	218153_at	5V	0.01
202907_s_at	5V	0.01	210097_s_at	5V	0.01
214953_s_at	5V	0.01	200753_x_at	5V	0.01
218065_s_at	5V	0.01	218242_s_at	5V	0.01
212862_at	5V	0.01	91816_f_at	5V	0.01
206284_x_at	5V	0.01	211702_s_at	5V	0.01
209102_s_at	5V	0.01	203544_s_at	5V	0.01
202004_x_at	5V	0.01	222127_s_at	5V	0.01
210092_at	5V	0.01	200609_s_at	5V	0.01
211733_x_at	5V	0.01	201339_s_at	5V	0.01
203674_at	5V	0.01	217738_at	5V	0.01
205251_at	5V	0.01	211342_x_at	5V	0.01
218031_s_at	5V	0.01	205294_at	5V	0.01
203799_at	5V	0.01	205173_x_at	5V	0.01
214459_x_at	5V	0.01	201924_at	5V	0.01
202675_at	5V	0.01	211716_x_at	5V	0.01
200773_x_at	5V	0.01	222175_s_at	5V	0.01
209067_s_at	5V	0.01	202629_at	5V	0.01
222218_s_at	5V	0.01	217725_x_at	5V	0.01
220691_at	5V	0.01	202757_at	5V	0.01
208306_x_at	5V	0.01	219666_at	5V	0.01
208407_s_at	5V	0.01	217873_at	5V	0.01
203194_s_at	5V	0.01	212916_at	5V	0.01
200673_at	5V	0.01	204084_s_at	5V	0.01
204977_at	5V	0.01	31845_at	5V	0.01
210208_x_at	5V	0.01	221500_s_at	5V	0.01
36994_at	5V	0.01	208720_s_at	5V	0.01
209669_s_at	5V	0.01	202536_at	5V	0.01
202499_s_at	5V	0.01	201473_at	5V	0.01
202797_at	5V	0.01	203380_x_at	5V	0.01
219330_at	5V	0.01	220832_at	5V	0.01
201239_s_at	5V	0.01	51146_at	5V	0.01
202738_s_at	5V	0.01	201725_at	5V	0.01
215633_x_at	5V	0.01	212669_at	5V	0.01
215823_x_at	5V	0.01	218941_at	5V	0.01
212124_at	5V	0.01	208885_at	5V	0.01
204490_s_at	5V	0.01	53071_s_at	5V	0.01
202513_s_at	5V	0.01	211991_s_at	5V	0.01
217388_s_at	5V	0.01	208737_at	5V	0.01
206015_s_at	5V	0.01	212213_x_at	5V	0.01
208945_s_at	5V	0.01	209058_at	5V	0.01
201575_at	5V	0.01	208687_x_at	5V	0.01
218195_at	5V	0.01	209276_s_at	5V	0.01
209107_x_at	5V	0.01	200788_s_at	5V	0.01
202803_s_at	5V	0.01	214366_s_at	5V	0.01
210649_s_at	5V	0.01	200601_at	5V	0.01
217788_s_at	5V	0.01	202193_at	5V	0.01
208835_s_at	5V	0.01	204507_s_at	5V	0.02
211956_s_at	5V	0.01	212072_s_at	5V	0.02
64486_at	5V	0.01	220404_at	5V	0.02
204710_s_at	5V	0.01	221494_x_at	5V	0.02
203936_s_at	5V	0.01	209970_x_at	5V	0.02
201745_at	5V	0.01	201394_s_at	5V	0.02
202918_s_at	5V	0.01	212450_at	5V	0.02
201786_s_at	5V	0.01	212263_at	5V	0.02
200602_at	5V	0.01	219694_at	5V	0.02
203663_s_at	5V	0.01	213738_s_at	5V	0.02
219947_at	5V	0.01	200700_s_at	5V	0.02
209004_s_at	5V	0.01	209217_s_at	5V	0.02

213980 _s_at	5V	0.02
201529_s_at	5V	0.02
219033_at	5V	0.02
206257_at	5V	0.02
212982_at	5V	0.02
219137_s__at	5V	0.02
219156_at	5V	0.02
208680_at	5V	0.02
201580_s_at	5V	0.02
2024 64_, 3_at	5V	0.02
219132_at	5V	0.02
212063_at	5V	0.02
213280_at	5V	0.02
218074_at	5V	0.02
204806_x_at	5V	0.02
207196_s_at	5V	0.02
213775_x_at	5V	0.02
205174_s_at	5V	0.02
204872_at	5V	0.02
204493_at	5V	0.02
209329_x_at	5V	0.02
212501_at	5V	0.02
201692_at	5V	0.02
200 669_s_at	5V	0.02
202233_s_at	5V	0.02
202535_at	5V	0.02
200927_s_at	5V	0.02
203312_x_at	5V	0.02
207820_at	5V	0.02
200094_s_at	5V	0.02
218306_s_at	5V	0.02
212271_at	5V	0.02
202777_at	5V	0.02
212971_at	5V	0.02
2174 91_x_at	5V	0.02
207667_s_at	5V	0.02
220202_s_at	5V	0.02
200 620_at	5V	0.02
219859_at	5V	0.02
217860_at	5V	0.02
210213_s_at	5V	0.02
200802_at	5V	0.02
218221_at	5V	0.02
217 576_x_at	5V	0.02
202155_s_at	5V	0.02
209323_at	5V	0.02
204774_at	5V	0.02
208852_s_at	5V	0.02
207 957_s_at	5V	0.02
217 915_s_at	5V	0.02
206854_s_at	5V	0.02
2007 68_s_at	5V	0.02
218084_x_at	5V	0.02
214119_s_at	5V	0.02
36936_at	5V	0.02
204 445_s_at	5V	0.02
203162_s_at	5V	0.02
202995_s_at	5V	0.02
210039_s_at	5V	0.02
201155_s_at	5V	0.02
202430_s_at	5V	0.02
218655_s_at	5V	0.02
212277_at	5V	0.02
202654 _x_at	5V	0.02

217122_s_at	5V	0.02
209580__s_at	5V	0.02
202113_s_at	5V	0.02
200595_s_at	5V	0.02
20137 9__s_at	5V	0.02
200696_s_at	5V	0.02
213496_at	5V	0.02
208829_at	5V	0.02
202163_s_at	5V	0.02
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203307_at	5V	0.02
203502_at	5V	0.02
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203613_s_at	5V	0.02
209088_s_at	5V	0.02
220366_at	5V	0.02
221581_s_at	5V	0.02
222021_x__at	5V	0.02
205312_at	5V	0.02
208901_s_at	5V	0.02
41329_at	5V	0.02
200649_at	5V	0.02
202693_s_at	5V	0.02
221306_at	5V	0.02
204837_at	5V	0.02
202687_s_at	5V	0.02
219157_at	5V	0.02
200668_s_at	5V	0.02
204022_at	5V	0.02
200722_s_at	5V	0.02
20260 6_s_at	5V	0.02
209945_s_at	5V	0.02
201916_s_at	5V	0.02
219489_s_at	5V	0.02
209112_at	5V	0.02
2087 66_s_at	5V	0.02
221891_x_at	5V	0.02
201574_at	5V	0.02
201823_s_at	5V	0.02
202783_at	5V	0.02
219700_at	5V	0.02
200714_x_at	5V	0.02
20532 3_s_at	5V	0.02
202448_s_at	5V	0.02
208925_at	5V	0.02
203420_at	5V	0.02
207419_s_at	5V	0.02
2035 61_at	5V	0.02
212597_s_at	5V	0.02
201198_s_at	5V	0.02
200025_s_at	5V	0.02
211164_at	5V	0.02
2077 91_s_at	5V	0.02
207275_s_at	5V	0.02
203345_s_at	5V	0.02
218198_at	5V	0.02
215952 _s_at	5V	0.02
AFFX-HUMGAPDH/ M33197	5V	0.02
201594 _s_at	5V	0.02
203132 _at	5V	0.02
211924 _s_at	5V	0.02
203291 _at	5V	0.02

204 906 _at	5V	0 .02	218007 _s_at	5V	0 .02
202232 _s_at	5V	0 .02	208578 _at	5V	0 .02
212616 _at	5V	0 .02	210574 _s_at	5V	0 .02
202084 _s_at	5V	0 .02	216071 _x_at	5V	0 .02
203126 _at	5V	0 .02	212265 _at	5V	0 .02
213225 _at	5V	0 .02	205269 _at	5V	0 .02
204632 _at	5V	0 .02	211503 _s_at	5V	0 .02
209827 _s_at	5V	0 .02	204360 _s_at	5V	0 .02
209033 _s_at	5V	0 .02	210784 _x_at	5V	0 .02
221476 _s_at	5V	0 .02	217398 _x_at	5V	0..02
212895 _s_at	5V	0 .02	221058 _s_at	5V	o .02
209020 _at	5V	0 .02	208692 _at	5V	o .02
212990 _at	5V	0 .02	213214 _x_at	5V	o .02
201941 _at	5V	0 .02	203611 _at	5V	o .02
217986 _s_at	5V	0 .02	206875 _s_at	5V	o .02
203614 _at	5V	0 .02	220755 _s_at	5V	o .02
202076 _at	5V	0 .02	221471 _at	5V	o .02
208785 _s_at	5V	0 .02	219155 _at	5V	o .02
202957 _JLt	5V	0 .02	211758 _x_at	5V	o .02
207522 _s_at	5V	0 .02	211711 _s_at	5V	o .02
203537 _at	5V	0 .02	201369 _s_at	5V	o .02
211101 _x_at	5V	0..02	201493 _s_at	5V	o ,02
217028 _at	5V	0..02	208675 _s_at	5V	o ,02
204034 _at	5V	0..02	218809 _at	5V	o ,02
201352 _at	5V	0..02	220615 _s_at	5V	o ,02
214709 _s_at	5V	o .02	211714 _x_at	5V	o ,02
207563 _s_at	5V	0..02	210254 _at	5V	o ,02
202910 _s_at	5V	o ,02	215157 _x_at	5V	o ,02
207408 _at	5V	o ,02	201740 _at	5V	o .02
210579 _s_at	5V	o..02	218048 _at	5V	o .02
202230 _s_at	5V	o ,02	202727 _s_at	5V	0 .02
200781 _s_at	5V	o..02	212804 _s_at	5V	0 .02
204971 _at	5V	o ,02	201029 _s_at	5V	0 .02
218950 _at	5V	o _02	214264 _s_at	5V	0 .02
63009 _at	5V	o _02	201993 _x_at	5V	0 .02
215088 _s_at	5V	o ,02	213065 _at	5V	0 .02
205849 _s_at	5V	o _02	201476 _s_at	5V	0 .02
202604 _x_at	5V	o _02	201455 _s_at	5V	0 .02
213557 _at	5V	o ,02	202103 _at	5V	0 .02
218091 _at	5V	o ,02	201348 _at	5V	0 .02
216252 _x_at	5V	0 .02	212188 _at	5V	0 .02
206006 _s_at	5V	0 .02	205184 _at	5V	0 .02
222024 _s_at	5V	0 .02	202423 _[at	5V	0 .02
218520 _at	5V	0 .02	221078 _s_at	5V	0 .02
48659 _at	5V	0 .02	203693 _s_at	5V	0 .02
218846 _at	5V	0 .02	203574 _at	5V	0 .02
220957 _at	5V	0 .02	210907 _s_at	5V	0 .02
202682 _s_at	5V	0 .02	202519 _[at	5V	0 .02
212685 _s_at	5V	0 .02	219176 _[at	5V	0 .02
205191 _at	5V	0 .02	208637 _x_at	5V	0 .02
218196 _at	5V	0 .02	202534 _x_at	5V	0 .02
218870 _[at	5V	0 .02	221479 _s_at	5V	0 .02
210878 _s_at	5V	0 .02	211135 _x_at	5V	0 .02
204190 _at	5V	0 .02	203741 _s_at	5V	0 .02
204804 _at	5V	0 .02	212473 _s_at	5V	0 .02
202817 _s_at	5V	0 .02	204050 _s_at	5V	0 .02
201784 _s_at	5V	0 .02	35974_ at	5V	0 .02
205681 _at	5V	0 .02	206208 _at	5V	0 .02
203781 _at	5V	0 .02	203378 _[at	5V	0 .02
209455 _at	5V	0 .02	212360 _[at	5V	0 .02
204912 _at	5V	o .02	216218 _s_at	5V	0 .02
203624 _at	5V	0 .02	218192 _[at	5V	0 .02
201074 _at	5V	0 .02	215222 _x_at	5V	0 .02
32042 _at	5V	0 .02	209951 _s_at	5V	0 .02

207945_s_at	5V	0.02	205197_s_at	5V	0.03
201736_s_at	5V	0.02	207338_s_at	5V	0.03
208894_at	5V	0.02	213061_s_at	5V	0.03
206052_s_at	5V	0.02	218936_s_at	5V	0.03
216841_s_at	5V	0.02	200840_at	5V	0.03
201475_x_at	5V	0.02	200645_at	5V	0.03
204674_at	5V	0.02	212476_at	5V	0.03
208841_s_at	5V	0.02	203837_at	5V	0.03
208405_s_at	5V	0.02	211940_x_at	5V	0.03
201409_s_at	5V	0.02	208905_at	5V	0.03
202736_s_at	5V	0.02	217846_at	5V	0.03
203142_s_at	5V	0.02	206662_at	5V	0.03
200014_s_at	5V	0.02	221012_s_at	5V	0.03
38710_at	5V	0.02	217733_s_at	5V	0.03
200911_s_at	5V	0.02	218592_s_at	5V	0.03
213940_s_at	5V	0.02	211368_s_at	5V	0.03
202824_s_at	5V	0.02	219161_s_at	5V	0.03
204689_at	5V	0.02	200928_s_at	5V	0.03
218549_s_at	5V	0.02	205147_x_at	5V	0.03
204924_at	5V	0.02	218131_s_at	5V	0.03
210288_at	5V	0.02	201637_s_at	5V	0.03
211079_s_at	5V	0.02	203360_s_at	5V	0.03
202333_s_at	5V	0.02	201054_at	5V	0.03
213603_s_at	5V	0.02	214334_x_at	5V	0.03
218322_s_at	5V	0.02	209494_s_at	5V	0.03
217941_s_at	5V	0.02	202794_at	5V	0.03
201276_at	5V	0.02	215498_s_at	5V	0.03
211069_s_at	5V	0.02	221791_s_at	5V	0.03
202364_at	5V	0.02	215884_s_at	5V	0.03
201699_at	5V	0.02	204577_s_at	5V	0.03
210024_s_at	5V	0.02	205716_at	5V	0.03
208825_x_at	5V	0.02	207483_s_at	5V	0.03
222035_s_at	5V	0.02	210772_at	5V	0.03
221483_s_at	5V	0.02	201350_at	5V	0.03
201670_s_at	5V	0.02	202495_at	5V	0.03
209928_s_at	5V	0.02	220953_s_at	5V	0.03
200033_at	5V	0.02	204588_s_at	5V	0.03
203364_s_at	5V	0.02	201857_at	5V	0.03
218237_s_at	5V	0.02	210718_s_at	5V	0.03
213361_at	5V	0.02	203110_at	5V	0.03
202560_s_at	5V	0.02	213773_x_at	5V	0.03
210271_at	5V	0.02	205789_at	5V	0.03
218404_at	5V	0.02	217730_[at	5V	0.03
210378_s_at	5V	0.02	209517_s_at	5V	0.03
208778_s_at	5V	0.02	210639_s_at	5V	0.03
220853_at	5V	0.02	213897_s_at	5V	0.03
208761_s_at	5V	0.02	201196_s_at	5V	0.03
217042_at	5V	0.02	200786_at	5V	0.03
218987_at	5V	0.02	201151_s_at	5V	0.03
217816_s_at	5V	0.02	201435_s_at	5V	0.03
203487_s_at	5V	0.02	218135_at	5V	0.03
201535_at	5V	0.03	209075_s_at	5V	0.03
220023_at	5V	0.03	213128_s_at	5V	0.03
202128_at	5V	0.03	203433_at	5V	0.03
201566_x_at	5V	0.03	200744_s_at	5V	0.03
202539_s_at	5V	0.03	208843_s_at	5V	0.03
205885_s_at	5V	0.03	210088_x_at	5V	0.03
206576_s_at	5V	0.03	207783_x_at	5V	0.03
200819_s_at	5V	0.03	204314_s_at	5V	0.03
202221_s_at	5V	0.03	220494_s_at	5V	0.03
201676_x_at	5V	0.03	202360_at	5V	0.03
209367_at	5V	0.03	201742_x_at	5V	0.03
202375_at	5V	0.03	212099_[at	5V	0.03
220036_s_at	5V	0.03	202117_at	5V	0.03

201619_at	~5V	0.03	200944_s_at	5V	0.03
215236_s_at	5V	0.03	212785_s_at	5V	0.03
218085_at	5V	0.03	200825_s_at	5V	0.03
201713_s_at	5V	0.03	212334_at	5V	0.03
205930_at	5V	0.03	202761_s_at	5V	0.03
207431_s_at	5V	0.03	208986_at	5V	0.03
201089_at	5V	0.03	217994_x_at	5V	0.03
209185_s_at	5V	0.03	200666_s_at	5V	0.03
208112_x_at	5V	0.03	218178_s_at	5V	0.03
207659_s_at	5V	0.03	217754_at	5V	0.03
203582_s_at	5V	0.03	209608_s_at	5V	0.03
208834_x_at	5V	0.03	207551_s_at	5V	0.03
202488_s_at	5V	0.03	218423_x_at	5V	0.03
202545_at	5V	0.03	204158_s_at	5V	0.03
218422_s_at	5V	0.03	209295_at	5V	0.03
218258_at	5V	0.03	207761_s_at	5V	0.03
202651_at	5V	0.03	217879_at	5V	0.03
218014_at	5V	0.03	201628_s_at	5V	0.03
217977_at	5V	0.03	221761_at	5V	0.03
218367_x_at	5V	0.03	201832_s_at	5V	0.03
202673_at	5V	0.03	202277_at	5V	0.03
203814_s_at	5V	0.03	200022_at	5V	0.03
220408_x_at	5V	0.03	212835_at	5V	0.03
218116_at	5V	0.03	200948_at	5V	0.03
202352_s_at	5V	0.03	218909_at	5V	0.03
212919_at	5V	0.03	204336_s_at	5V	0.03
55065_at	5V	0.03	205992_s_at	5V	0.03
211967_at	5V	0.03	209205_s_at	5V	0.03
203497_at	5V	0.03	209259_s_at	5V	0.03
214259_s_at	5V	0.03	208074_s_at	5V	0.03
203416_at	5V	0.03	215492_x_at	5V	0.03
218522_s_at	5V	0.03	202457_s_at	5V	0.03
202373_s_at	5V	0.03	221482_s_at	5V	0.03
213036_x_at	5V	0.03	202346_at	5V	0.03
209440_at	5V	0.03	202527_s_at	5V	0.03
209579_s_at	5V	0.03	202370_s_at	5V	0.03
218023_s_at	5V	0.03	217992_s_at	5V	0.03
211919_s_at	5V	0.03	210284_s_at	5V	0.03
207610_s_at	5V	0.03	217793_at	5V	0.03
209076_s_at	5V	0.03	221819_at	5V	0.03
219228_at	5V	0.03	219892_at	5V	0.03
204170_s_at	5V	0.03	208051_s_at	5V	0.03
36711_at	5V	0.03	202302_s_at	5V	0.03
200733_s_at	5V	0.03	221505_at:	5V	0.03
202392_s_at	5V	0.03	213501_at	5V	0.03
214800_x_at	5V	0.03	218465_at	5V	0.03
213095_x_at	5V	0.03	202263_at	5V	0.03
214658_at	5V	0.03	218631_at	5V	0.03
212796_s_at	5V	0.03	78047_s_at	5V	0.03
204513_s_at	5V	0.03	220232_at	5V	0.03
201812_s_at	5V	0.03	210283_x_at	5V	0.03
203732_at	5V	0.03	201087_at	5V	0.03
213084_x_at	5V	0.03	221475_s_at	5V	0.03
202811_at	5V	0.03	208875_s_at	5V	0.03
203406_at	5V	0.03	209907_s_at	5V	0.03
209137_s_at	5V	0.03	202663_at	5V	0.03
219371_s_at	5V	0.03	207691_x_at	5V	0.03
201190_s_at	5V	0.03	201298_s_at	5V	0.03
202059_s_at	5V	0.03	201999_s_at	5V	0.03
205349_at	5V	0.03	219472_at	5V	0.03
202600_s_at	5V	0.03	202362_at	5V	0.03
219872_at	5V	0.03	203276_at	5V	0.03
200071_at	5V	0.03	209798_at	5V	0.03
201268_at	5V	0.03	202459_s_at	5V	0.03

215047_at	5V	0.03		212948_at	5V	0.04
202140_s_at	5V	0.03		205400_at	5V	0.04
200866_s_at	5V	0.04		211623_s_at	5V	0.04
204053_x_at	5V	0.04		211969_at	5V	0.04
213956_at	5V	0.04		218845_at	5V	0.04
214150_x_at	5V	0.04		207111_at	5V	0.04
210285_x_at	5V	0.04		201071_x_at	5V	0.04
207760_s_at	5V	0.04		48117_at	5V	0.04
202297_s_at	5V	0.04		200871_s_at	5V	0.04
203305_at	5V	0.04		218310_at	5V	0.04
202203_s_at	5V	0.04		217822_at	5V	0.04
209758_s_at	5V	0.04		205134_s_at	5V	0.04
201300_s_at	5V	0.04		221257_x_at	5V	0.04
213080_x_at	5V	0.04		202135_s_at	5V	0.04
203983_at	5V	0.04		220960_x_at	5V	0.04
201170_s_at	5V	0.04		38964_i_at	5V	0.04
210014_x_at	5V	0.04		202425_x_at	5V	0.04
200959_at	5V	0.04		204771_s_at	5V	0.04
55081_at	5V	0.04		214196_s_at	5V	0.04
215000_s_at	5V	0.04		205967_at	5V	0.04
205116_at	5V	0.04		204267_x_at	5V	0.04
200844_s_at	5V	0.04		204225_at	5V	0.04
209515_s_at	5V	0.04		200977_s_at	5V	0.04
209864_at	5V	0.04		211710_x_at	5V	0.04
204670_x_at	5V	0.04		203621_at	5V	0.04
218288_s_at	5V	0.04		201304_at	5V	0.04
221503_s_at	5V	0.04		202083_s_at	5V	0.04
200684_s_at	5V	0.04		214672_at	5V	0.04
206766_at	5V	0.04		209732_at	5V	0.04
220195_at	5V	0.04		202679_at	5V	0.04
214438_at	5V	0.04		213243_at	5V	0.04
212388_at	5V	0.04		202688_at	5V	0.04
218208_at	5V	0.04		221156_x_at	5V	0.04
201757_at	5V	0.04		221425_s_at	5V	0.04
215227_x_at	5V	0.04		200605_s_at	5V	0.04
220417_s_at	5V	0.04		201994_at	5V	0.04
206170_at	5V	0.04		202795_x_at	5V	0.04
213047_x_at	5V	0.04		218233_s_at	5V	0.04
220742_s_at	5V	0.04		217980_s_at	5V	0.04
201556_s_at	5V	0.04		201094_at	5V	0.04
50965_at	5V	0.04		204618_s_at	5V	0.04
207041_at	5V	0.04		207180_s_at	5V	0.04
206011_at	5V	0.04		38447_at	5V	0.04
203388_at	5V	0.04		214544_s_at	5V	0.04
208030_s_at	5V	0.04		208726_s_at	5V	0.04
222115_x_at	5V	0.04		217942_at	5V	0.04
212830_at	5V	0.04		201781_s_at	5V	0.04
212625_at	5V	0.04		208591_s_at	5V	0.04
201592_at	5V	0.04		213624_at	5V	0.04
202006_at	5V	0.04		201084_s_at	5V	0.04
208998_at	5V	0.04		200047_s_at	5V	0.04
201154_x_at	5V	0.04		212430_at	5V	0.04
214688_at	5V	0.04		201542_at	5V	0.04
206044_s_at	5V	0.04		208386_x_at	5V	0.04
221234_s_at	5V	0.04		210401_at	5V	0.04
200625_s_at	5V	0.04		200814_at	5V	0.04
207805_s_at	5V	0.04		35626_at	5V	0.04
221708_s_at	5V	0.04		200692_s_at	5V	0.04
209786_at	5V	0.04		201666_at	5V	0.04
204669_s_at	5V	0.04		91682_at	5V	0.04
207574_s_at	5V	0.04		214523_at	5V	0.04
209974_s_at	5V	0.04		200929_at	5V	0.04
202748_at	5V	0.04		202181_at	5V	0.04
212544_at	5V	0.04		208240_s_at	5V	0.04

205010_at	5V	0.04		219639_x_at	5V	0.04
217755_at	5V	0.04		219283_at	5V	0.04
214561_at	5V	0.04		210347_s_at	6A	2.55e-06
220082_at	5V	0.04		203753_at	6A	6.4e-06
201133_s_at	5V	0.04		209841_s_at	6A	1.8e-05
205361_s_at	5V	0.04		222146_s_at	6A	2.48e-05
212888_at	5V	0.04		222891_s_at	6A	4.18e-05
208918_s_at	5V	0.04		55872_at	6A	7.33e-05
212403_at	5V	0.04		211721_s_at	6A	9.45e-05
200610_s_at	5V	0.04		205861_at	6A	1.14e-04
201850_at	5V	0.04		203939_at	6A	1.2e-04
201577_at	5V	0.04		207655_s_at	6A	1.53e-04
216657_at	5V	0.04		206245_s_at	6A	1.88e-04
202553_s_at	5V	0.04		205497_at	6A	1.93e-04
201612_at	5V	0.04		219667_s_at	6A	2.07e-04
201092_at	5V	0.04		221234_s_at	6A	2.07e-04
218203_at	5V	0.04		242028_at	6A	2.18e-04
202195_s_at	5V	0.04		217418_x_at	6A	2.35e-04
217871_s_at	5V	0.04		223658_at	6A	2.45e-04
218803_at	5V	0.04		39318_at	6A	2.78e-04
203338_at	5V	0.04		219497_s_at	6A	2.78e-04
212087_s_at	5V	0.04		219922_s_at	6A	2.86e-04
204627_s_at	5V	0.04		210356_x_at	6A	4.08e-04
211202_s_at	5V	0.04		230983_at	6A	4.48e-04
201642_at	5V	0.04		208591_s_at	6A	4.48e-04
214222_at	5V	0.04		219073_s_at	6A	4.91e-04
207734_at	5V	0.04		205297_s_at	6A	4.91e-04
201532_at	5V	0.04		1555688_s_at	6A	6.07e-04
201065_s_at	5V	0.04		209583_s_at	6A	6.86e-04
218053_at	5V	0.04		205307_s_at	6A	7.24e-04
204546_at	5V	0.04		227173_s_at	6A	8.36e-04
208727_s_at	5V	0.04		209514_s_at	6A	8.4e-04
201033_x_at	5V	0.04		205411_at	6A	8.57e-04
201591_s_at	5V	0.04		203642_s_at	6A	8.97e-04
206738_at	5V	0.04		204793~at	6A	9.42e-04
201088_at	5V	0.04		230634_x_at	6A	9.62e-04
221461_at	5V	0.04		201310-s_at	6A	9.73e-04
221044_s_at	5V	0.04		220255_at	6A	9.97e-04
218539_at	5V	0.04		233252_s_at	6A	1.017996e-03
211684_s_at	5V	0.04		225081_s_at	6A	1.082875e-03
201223_s_at	5V	0.04		239891_x_at	6A	1.165252e-03
219816_s_at	5V	0.04		205443_at	6A	1.183719e-03
211801_x_at	5V	0.04		214130_s_at	6A	1.285807e-03
202934_at	5V	0.04		224048_at	6A	1.305591e-03
201079_at	5V	0.04		226350_at	6A	1.354687e-03
201460_at	5V	0.04		38521_at	6A	1.357125e-03
201956_s_at	5V	0.04		242442_x_at	6A	1.428121e-03
210020_x_at	5V	0.04		217914_at	6A	1.469835e-03
201800_s_at	5V	0.04		204751_x_at	6A	1.541411e-03
201844_s_at	5V	0.04		208646_at	6A	1.553817e-03
40420_at	5V	0.04		219824_at	6A	1.75559e-03
201034_at	5V	0.04		203335_at	6A	2.015585e-03
204204_at	5V	0.04		225038_s_at	6A	2.057491e-03
202383_at	5V	0.04		205566_at	6A	2.096072e-03
218228_s_at	5V	0.04		226817_at	6A	2.118696e-03
215783_s_at	5V	0.04		203827_at	6A	2.132866e-03
201847_at	5V	0.04		203936_s_at	6A	2.26789e-03
214934_at	5V	0.04		206478_at	6A	2.26789e-03
212540_at	5V	0.04		207291_at	6A	2.28424e-03
213671_s_at	5V	0.04		206708_at	6A	2.533323e-03
207972_at	5V	0.04		233589_x_at	6A	2.572461e-03
220439_at	5V	0.04		205194_at	6A	2.650948e-03
210759_s_at	5V	0.04		220349_s_at	6A	2.741148e-03
215043_s_at	5V	0.04		206337_at	6A	2.751112e-03

200973 _s_at	6A	2.777272e-03
213133 _s_at	6A	2.797954e-03
219375 _at	6A	2.831535e-03
235020 _at	6A	2.911907e-03
221208 _s_at	6A	3.041363e-03
213292 _s_at	6A	3.042978e-03
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211495_x_at	6B	0.01		207075_at	6B	0.02
205227_at	6B	0.01		207391_s_at	6B	0.02
203634_s_at	6B	0.01		203723_at	6B	0.02
222046_at	6B	0.01		221421_s_at	6B	0.02
210118_s_at	6B	0.01		207604_s_at	6B	0.02
202135_s_at	6B	0.01		218372_at	6B	0.02
205249_at	6B	0.01		204837_at	6B	0.02
202483_s_at	6B	0.01		202241_at	6B	0.02
215482_s_at	6B	0.01		212199_at	6B	0.02
203857_s_at	6B	0.01		207170_s_at	6B	0.02
208309_s_at	6B	0.01		209100_at	6B	0.02
207347_at	6B	0.01		220446_s_at	6B	0.02
218532_s_at	6B	0.01		209398_at	6B	0.02
211671_s_at	6B	0.01		203282_at	6B	0.02
201672_s_at	6B	0.01		204099_at	6B	0.02
219185_at	6B	0.01		212842_x_at	6B	0.02
221819_at	6B	0.01		218030_at	6B	0.02
219433_at	6B	0.01		204735_at	6B	0.02
214049_x_at	6B	0.01		204172_at	6B	0.02
203692_s_at	6B	0.01		201464_x_at	6B	0.02
220528_at	6B	0.01		204000_at	6B	0.02
218423_x_at	6B	0.01		200965_s_at	6B	0.02
203590_at	6B	0.01		201783_s_at	6B	0.02
215299_x_at	6B	0.01		201008_s_at	6B	0.02
206184_at	6B	0.01		201896_s_at	6B	0.02
201177_s_at	6B	0.01		212383_at	6B	0.02
209774_x_at	6B	0.02		217552_x_at	6B	0.02
201172_x_at	6B	0.02		206323_x_at	6B	0.02
217928_s_at	6B	0.02		204106_at	6B	0.02
203615_x_at	6B	0.02		220832_at	6B	0.02
20738l_at	6B	0.02		65588_at	6B	0.02
218259_at	6B	0.02		200730_s_at	6B	0.02
208646_at	6B	0.02		209798_at	6B	0.02
201328_at	6B	0.02		215719_x_at	6B	0.02
206643_at	6B	0.02		219922_s_at	6B	0.02
218554_s_at.	6B	0.02		218490_s_at	6B	0.02

214551_s_at	6B	0.02		209964_s_at	6B	0.03
203691_at	6B	0.02		201329_s_at	6B	0.03
205296_at	6B	0.02		211271_x_at	6B	0.03
212360_at	6B	0.02		208807_s_at	6B	0.03
210449_x_at	6B	0.02		218327_s_at	6B	0.03
209160_at	6B	0.02		206828_at	6B	0.03
202136_at	6B	0.02		221817_at	6B	0.03
220009_at	6B	0.02		204085_s_at	6B	0.03
202087_s_at	6B	0.02		203753_at	6B	0.03
208180_s_at	6B	0.03		217987_at	6B	0.03
202224_at	6B	0.03		209558_s_at	6B	0.03
217618_x_at	6B	0.03		201559_s_at	6B	0.03
218017_s_at	6B	0.03		207996_s_at	6B	0.03
215726_s_at	6B	0.03		218753_at	6B	0.03
210312_s_at	6B	0.03		207164_s_at	6B	0.03
206785_s_at	6B	0.03		202522_at	6B	0.03
219941_at	6B	0.03		201477_s_at	6B	0.03
201512_s_at	6B	0.03		204445_s_at	6B	0.03
209118_s_at	6B	0.03		204470_at	6B	0.03
203126_at	6B	0.03		203921_at	6B	0.03
212194_3_at	6B	0.03		202638_s_at	6B	0.03
218393_s_at	6B	0.03		205863_at	6B	0.03
201324_at	6B	0.03		208795_s_at	6B	0.03
201041_s_at	6B	0.03		200020_at	6B	0.03
220122_at	6B	0.03		201953_at	6B	0.03
212831_at	6B	0.03		212599_at	6B	0.03
202283_at	6B	0.03		209750_at	6B	0.03
214220_s_at	6B	0.03		202207_at	6B	0.03
203058_s_at	6B	0.03		208549_x_at	6B	0.03
204612_at	6B	0.03		204062_s_at	6B	0.03
212295_s_at	6B	0.03		219013_at	6B	0.03
207957_s_at	6B	0.03		221345_at	6B	0.03
219126_at	6B	0.03		222146_s_at	6B	0.03
202263_at	6B	0.03		55872_at	6B	0.04
212130_x_at	6B	0.03		221658_s_at	6B	0.04
204961_s_at	6B	0.03		209475_at	6B	0.04
206875_s_at	6B	0.03		208398_s_at	6B	0.04
212896_at	6B	0.03		207234_at	6B	0.04
221580_s_at	6B	0.03		200644_at	6B	0.04
201444_s_at	6B	0.03		204510_at	6B	0.04
203434_s_at	6B	0.03		206729_at	6B	0.04
203778_at	6B	0.03		210314_x_at	6B	0.04
35265_at	6B	0.03		218539_at	6B	0.04
202535_at	6B	0.03		201625_s_at	6B	0.04
203102_s_at	6B	0.03		209188_x_at	6B	0.04
203118_at	6B	0.03		218155_x_at	6B	0.04
205047_s_at	6B	0.03		213170_at	6B	0.04
205511_at	6B	0.03		202911_at	6B	0.04
219646_at	6B	0.03		218530_at	6B	0.04
219025_at	6B	0.03		212500_at	6B	0.04
219872_at	6B	0.03		218082_s_at	6B	0.04
222000_at	6B	0.03		205931_s_at	6B	0.04
217830_s_at	6B	0.03		212602_at	6B	0.04
207289_at	6B	0.03		209967_s_at	6B	0.04
209225_x_at	6B	0.03		209758_s_at	6B	0.04
222077_s_at	6B	0.03		202494_at	6B	0.04
219396_s_at	6B	0.03		205291_at	6B	0.04
212238_at	6B	0.03		218092_s_at	6B	0.04
202847_at	6B	0.03		210088_x_at	6B	0.04
216399_s_at	6B	0.03		205362_s_at	6B	0.04
31826_at	6B	0.03		205685_at	6B	0.04
214298_x_at	6B	0.03		203471_s_at	6B	0.04
221657_s_at	6B	0.03		202227_s_at	6B	0.04
220711_at	6B	0.03		219538_at	6B	0.04

217823_s_at	6B	0.04		217197_x_at	6C	1.31e-04
208289_s_at	6B	0.04		208772_at	6C	2.13e-04
211102_s_at	6B	0.04		224906_at	6C	2.52e-04
204860_s_at	6B	0.04		205292_s_at	6C	2.81e-04
204020_at	6B	0.04		221582_at	6C	3.06e-04
210835_s_at	6B	0.04		216304_x_at	6C	3.33e-04
212655_at	6B	0.04		242774_at	6C	3.7e-04
208818_s_at	6B	0.04		214196_s_at	6C	3.7e-04
217976_s_at	6B	0.04		218322_s_at	6C	3.7e-04
221138_s_at	6B	0.04		203825_at	6C	3.7e-04
217842_at	6B	0.04		203254_s_at	6C	3.7e-04
203344_s_at	6B	0.04		203585_at	6C	3.7e-04
222343_at	6B	0.04		203528_at	6C	3.7e-04
208984_x_at	6B	0.04		222409_at	6C	3.7e-04
208741_at	6B	0.04		211926_s_at	6C	3.7e-04
213153_at	6B	0.04		202043_s_at	6C	3.7e-04
203497_at	6B	0.04		209141_at	6C	3.7e-04
202107_s_at	6B	0.04		208721_s_at	6C	3.7e-04
213524_s_at	6B	0.04		208598_s_at	6C	3.7e-04
203221_at	6B	0.04		201814_at	6C	3.7e-04
202351_at	6B	0.04		202610_s_at	6C	3.8e-04
218394_at	6B	0.04		201676_K_at	6C	4.28e-04
211922_s_at	6B	0.04		204109_s_at	6C	4.29e-04
204918_s_at	6B	0.04		218129_s_at	6C	4.3e-04
209383_at	6B	0.04		200709_at	6C	4.8e-04
217986_s_at	6B	0.04		222407_s_at	6C	4.84e-04
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209827_s_at	6B	0.04		212552_at	6C	5.07e-04
202426_s_at	6B	0.04		224859_at	6C	5.4e-04
208723_at	6B	0.04		200845_s_at	6C	5.43e-04
202021_x_at	6B	0.04		211945_s_at	6C	5.59e-04
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213974_at	6B	0.04		208704_x_at	6C	5.98e-04
219624_at	6B	0.04		223243_s_at	6C	6.22e-04
202144_s_at	6B	0.04		201120_s_at	6C	6.34e-04
203651_at	6B	0.04		204209_at	6C	6.87e-04
213378_s_at	6B	0.04		202611_s_at	6C	7.02e-04
211561_x_at	6B	0.04		200867_at	6C	7.15e-04
207416_s_at	6B	0.04		215049_x_at	6C	7.16e-04
201432_at	6B	0.04		214743_at	6C	7.16e-04
202943_s_at	6B	0.04		200742_s_at	6C	8.96e-04
200632_s_at	6B	0.04		202443_x_at	6C	9.05e-04
207872_s_at	6B	0.04		204079_at	6C	9.12e-04
218224_at	6B	0.04		211097_s_at	6C	9.12e-04
214333_x_at	6B	0.04		201587_s_at	6C	9.29e-04
200691_s_at	6B	0.04		202469_s_at	6C	9.33e-04
212520_s_at	6B	0.04		216041_x_at	6C	9.79e-04
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217900_at	6B	0.04		201351_s_at	6C	1.006476e-03
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217837_s_at	6B	0.04		204065_at	6C	1.038708e-03
209340_at	6B	0.04		200661_at	6C	1.096407e-03
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204686_at	6C	7.93e-06		201531_at	6C	1.127363e-03
200697_at	6C	4.7e-05		221782_at	6C	1.131777e-03
208791_at	6C	5.0e-05		214449_s_at	6C	1.132248e-03
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213440_at	6C	7.0e-05		211240_x_at	6C	1.161555e-03
201935_s_at	6C	7.01e-05		207769_s_at	6C	1.241902e-03
208703_s_at	6C	8.1e-05		91682_at	6C	1.259622e-03
201794_s_at	6C	1.05e-04		212192_at	6C	1.298995e-03

200806_s_at	6C	1.37852e-03		211015_s_at	6C	2.420702e-03
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205013_s_at	6C	1.382063e-03		201444_s_at	6C	2.454056e-03
218606_at	6C	1.405496e-03		31874_at	6C	2.471891e-03
204164_at	6C	1.441658e-03		219801_at	6C	2.487031e-03
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1553530_a_at	6C	1.445823e-03		203708_at	6C	2.555383e-03
218902_at	6C	1.476515e-03		201506_at	6C	2.558468e-03
214109_at	6C	1.476515e-03		207571_x_at	6C	2.563486e-03
204 494_s_at	6C	1.476515e-03		202659_at	6C	2.565759e-03
221498_at	6C	1.476515e-03		1557000_at	6C	2.589513e-03
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220832_at	6C	1.524272e-03		204367_at	6C	2.629779e-03
219402_s_at	6C	1.527517e-03		225361_x_at	6C	2.64627e-03
229510_at	6C	1.542091e-03		213526_s_at	6C	2.661895e-03
209960_at	6C	1.543497e-03		220368_s_at	6C	2.702821e-03
200712_s_at	6C	1.590597e-03		224636_at	6C	2.70414e-03
200072_s_at	6C	1.595707e-03		221080_s_at	6C	2.70464e-03
202582_s_at	6C	1.60986e-03		201662_s_at	6C	2.724116e-03
219538_at	6C	1.631429e-03		218740_s_at	6C	2.742309e-03
230370_x_at	6C	1.657478e-03		212685_s_at	6C	2.747022e-03
221516_s_at	6C	1.657537e-03		202195__s_at	6C	2.747022e-03
204258_at	6C	1.666026e-03		200866_s_at	6C	2.747022e-03
222024_s_at	6C	1.684694e-03		208910_s_at	6C	2.748727e-03
208702_x_at	6C	1.694656e-03		225251_at	6C	2.796581e-03
224900_at	6C	1.698205e-03		205306_x_at	6C	2.850383e-03
218570_at	6C	1.69961e-03		200743_s_at	6C	2.864963e-03
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203594_at	6C	1.741631e-03		219672_at	6C	2.923034e-03
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202272_s_at	6C	1.756227e-03		215038_s_at	6C	3.07376e-03
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219128_at	6C	1.802108e-03		211571_s_at	6C	3.124962e-03
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211936_at	6C	1.92637e-03		201385_at	6C	3.2798e-03
218583_s_at	6C	1.938783e-03		200881_s_at	6C	3.312861e-03
204 634_at	6C	1.955847e-03		234987_at	6C	3.324557e-03
208742_s_at	6C	1.959365e-03		202856_s_at	6C	3.324735e-03
203778_at	6C	1.96843e-03		222262_s_at	6C	3.359558e-03
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211806_s_at	6C	2.007639e-03		210314_x_at	6C	3.361179e-03
209 61_s_at	6C	2.03663e-03		201666_at	6C	3.361179e-03
1553162_x_at	6C	2.046704e-03		208686_s_at	6C	3.372811e-03
2081 4 6_s_at	6C	2.141637e-03		214500_at	6C	3.380523e-03
1553906_s_at	6C	2.15903e-03		211251_x_at	6C	3.484953e-03
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205789_at	6C	2.187711e-03		201079_at	6C	3.527814e-03
218716_x_at	6C	2.214611e-03		222200_s_at	6C	3.532765e-03
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209067_s_at	6C	2.242805e-03		203575_at	6C	3.643802e-03
211404_s_at	6C	2.267165e-03		224217_s_at	6C	3.685684e-03
203645_s_at	6C	2.334988e-03		223011_s_at	6C	3.722769e-03
224 991_at	6C	2.352079e-03		225378_at	6C	3.72792e-03
21774 6_s_at	6C	2.365126e-03		200737_at	6C	3.734728e-03
214730_s_at	6C	2.366248e-03		212780_at	6C	3.73894e-03

1224

202934 _at	6C	1.790192e-03
205690 _s_at	6C	3.866895e-03
210786 _s_at	6C	3.887233e-03
230550 _at	6C	3.921782e-03
205335 _s_at	6C	3.963924e-03
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218972 _at	6C	4.106139e-03
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212334_at	6C	4.136592e-03
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200753 _x_at	6C	4.42818e-03
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210042 _s_at	6C	4.508978e-03
203810 _at	6C	4.548654e-03
218098 _at	6C	4.583241e-03
205453 _at	6C	4.586794e-03
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224658 _x_at	6C	4.690142e-03
201216 _at	6C	4.703777e-03
222752 _s_at	6C	4.743825e-03
202803 _s_at	6C	4.777948e-03
219105 _x_at	6C	4.803831e-03
225058 _at	6C	4.824578e-03
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218519 _at	6C	4.876041e-03
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218137 _s_at	6C	4.929138e-03
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202864_s_at	6C	0.01
205323_s_at	6C	0.01
217828_at	6C	0.01
201331_s_at	6C	0.01
200629_at	6C	0.01
200701_at	6C	0.01
226823_at	6C	0.01
201078_at	6C	0.01
201218_at	6C	0.01
207303_at	6C	0.01
201128_s_at	6C	0.01
227766_at	6C	0.01
230720_at	6C	0.01
1554202_x_at	6C	0.01
232843_s_at	6C	0.01
1554229_at	6C	0.01
202082_s_at	6C	0.01
213507_s_at	6C	0.01
208594_x_at	6C	0.01
218034_at	6C	0.01
204882_at	6C	0.01
1552414_at	6C	0.01
201857_at	6C	0.01
203102_s_at	6C	0.01
209384_at	6C	0.01
203991_s_at	6C	0.01
201443_s_at	6C	0.01
228393_s_at	6C	0.01
221437_s_at	6C	0.01
208875_s_at	6C	0.01
203104_at	6C	0.01
215228_at	6C	0.01
203396_at	6C	0.01
229560_at	6C	0.01
211972_x_at	6C	0.01
1558747_at	6C	0.01
201257_x_at	6C	0.01
201483_s_at	6C	0.01
204493_at	6C	0.01
211946_s_at	6C	0.01
208768_x_at	6C	0.01
233759_s_at	6C	0.01
228167_at	6C	0.01
217717_s_at	6C	0.01
1552553_a_at	6C	0.01
40465_at	6C	0.01
219623_at	6C	0.01
208690_s_at	6C	0.01
AFFX-HUMISGF3A/		
M9793	6C	0.01
201748_s_at	6C	0.01
204652_s_at	6C	0.01
203923_s_at	6C	0.01
217866_at	6C	0.01
203831_at	6C	0.01
217960_s_at	6C	0.01
219200_at	6C	0.01

203239_s_at	6C	0.01
222754_at	6C	0.01
200785_s_at	6C	0.01
217788_s_at	6C	0.01
208726_s_at	6C	0.01
36030_at	6C	0.01
208579__x_at	6C	0.01
220578__at	6C	0.01
214974__x_at	6C	0.01
202439_s_at	6C	0.01
222708_s_at	6C	0.01
228336_at	6C	0.01
204361_s_at	6C	0.01
204495_s_at	6C	0.01
223329_x_at	6C	0.01
208945_s_at	6C	0.01
200660_at	6C	0.01
1553155_x_at	6C	0.01
200064_at	6C	0.01
201106_at	6C	0.01
202244_at	6C	0.01
222516_at	6C	0.01
117_at	6C	0.01
218989_x_at	6C	0.01
209499_x_at	6C	0.01
206632_s_at	6C	0.01
201863_at	6C	0.01
1552667__a_at	6C	0.01
210817_s_at	6C	0.01
226642_s_at	6C	0.01
214882_s_at	6C	0.01
32069_at	6C	0.01
204669_s_at	6C	0.01
1554899_s_at	6C	0.01
202396_at	6C	0.01
203335_at	6C	0.01
203530_s_at	6C	0.01
201105_at	6C	0.01
1553252_a_at	6C	0.01
209417_s_at	6C	0.01
204023_at	6C	0.01
223474_at	6C	0.01
208696_at	6C	0.01
1552386_at	6C	0.01
203040_s_at	6C	0.01
203591_s_at	6C	0.01
218649_x_at	6C	0.01
211367_s_at	6C	0.01
202457_s_at	6C	0.01
201779_s_at	6C	0.01
1559942_at	6C	0.01
203508_at	βC	0.01
217492_s_at	6C	0.01
217106_x_at	6C	0.01
201384_s_at	6C	0.01
226019_at	6C	0.01
209027_s_at	6C	0.01
201202_at	6C	0.01
208655_at	6C	0.01
213046_at	6C	0.01
209685_s_at	6C	0.01
201222_s_at	6C	0.01
223880__x_at	6C	0.01
224652_at	6C	0.01

Probe	Col	Val		Probe	Col	Val
201532^a£	6C	0.01		230690 _at	6C	0.01
219428_s_at	6C	0.01		219126 _at	6C	0.01
218039_at	6C	0.01		218659 _at	6C	0.01
218004_at	6C	0.01		204232 _at	6C	0.01
220992_s_at	6C	0.01		206283 _s _at	6C	0.01
202783__at	6C	0.01		200788 _s _at	6C	0.01
203827_at	6C	0.01		218263 _s _at	6C	0.01
203140_at	6C	0.01		205627 _at	6C	0.01
203624_at	6C	0.01		53720 _at	6C	0.01
205297_s_at	6C	0.01		210658 __s_at	6C	0.01
201898_s_at	6C	0.01		227960 _s _at	6C	0.01
222610_s_at	6C	0.01		207655 _s _at	6C	0.01
224974_at	6C	0.01		208996 _s _at	6C	0.01
213039_at	6C	0.01		222621 _at	6C	0.01
2097 62_x_at	6C	0.01		220761 _s _at	6C	0.01
225686_at	6C	0.01		208640 _at	6C	0.01
218549_s_at	6C	0.01		225614 _at	6C	0.01
222881_at	6C	0.01		225705 _at	6C	0.01
201426_s__at	6C	0.01		204012 _s _at	6C	0.01
219551_at	6C	0.01		208837 _at	6C	0.01
211997_x_at	6C	0.01		204249 _s _at	6C	0.01
200649_at	6C	0.01		222601 _at	6C	0.01
226219_at	6C	0.01		228034 _x _at	6C	0.01
212933_x_at	6C	0.01		217855 _x _at	6C	0.01
206332_s_at	6C	0.01		206448 _at	6C	0.01
209142_s_at	6C	0.01		235552 _at	6C	0.01
20067 4_s_at	6C	0.01		226464 _at	6C	0.01
200644_at	6C	0.01		218803 _at	6C	0.01
201299_s_at	6C	0.01		204006 _s _at	6C	0.01
213607_x_at	6C	0.01		221619 _s _at	6C	0.01
215719_x_at	6C	0.01		208018 _s _at	6C	0.01
202333_s_at	6C	0.01		207002 _s _at	6C	0.01
201054_at	6C	0.01		223649 _s _at	6C	0.01
202160_at	6C	0.01		211749 _s _at	6C	0.01
209207_s_at	6C	0.01		202038 _at	6C	0.01
1555349_a_at	6C	0.01		207922 _s _at	6C	0.01
208827_at	6C	0.01		201446 _s _at	6C	0.01
206993_at	6C	0.01		226518 _at	6C	0.01
228135_at	6C	0.01		228531 _at	6C	0.01
223394_at	6C	0.01		218131 _s _at	6C	0.01
211070_x_at	6C	0.01		216689 _x _at	6C	0.01
38269_at	6C	0.01		218397 _at	6C	0.01
203721_s_at	6C	0.01		219342 _at	6C	0.01
217826_s_at	6C	0.01		210543 _s _at	6C	0.01
211101_x_at	6C	0.01		222790 _s _at	6C	0.01
223034_s_at	6C	0.01		219819 _s _at	6C	0.01
202665__s_at	6C	0.01		201193 _at	6C	0.01
200974_at	6C	0.01		34206 _at	6C	0.01
212584_at	6C	0.01		208403 _x _at	6C	0.01
202084_s_at	6C	0.01		205856 _at	6C	0.01
226510__at	6C	0.01		220987 _s _at	6C	0.01
210926__at	6C	0.01		1553528 _a_at	6C	0.01
58367_s_at	6C	0.01		211665 _s _at	6C	0.01
215 633__x_at	6C	0.01		201321 _s _at	6C	0.01
209412_at	6C	0.01		1555971 _s_at	6C	0.01
204060_s_at	6C	0.01		217993 _s _at	6C	0.02
210716_s_at	6C	0.01		217748 _at	6C	0.02
201515_s_at	6C	0.01		213047 _x _at	6C	0.02
202477__s_at	6C	0.01		200085 _s _at	6C	0.02
217965_s_at	6C	0.01		201091 _s _at	6C	0.02
155297 6_at	6C	0.01		212718 _at	6C	0.02
224560_at	6C	0.01		200731 _s _at	6C	0.02
224823_at	6C	0.01		220826 _at	6C	0.02
224733 _at	6C	0.01		223686 _at	6C	0.02

1230

205270 _s_at	6C	0.02		208610 _s_at	6C	0.02
1556285 _s_at	6C	0.02		223009 _at	6C	0.02
242056 _at	6C	0.02		222464 _s_at	6C	0.02
206655 _s_at	6C	0.02		201803 _at	6C	0.02
206682 _at	6C	0.02		225425 _s_at	6C	0.02
214168 _s_at	6C	0.02		228234 _at	6C	0.02
203748 _x_at	6C	0.02		218506~_x_at	6C	0.02
214726 _x_at	6C	0.02		215832 _x_at	6C	0.02
205815 _at	6C	0.02		218032 _at	6C	0.02
219577 _s_at	6C	0.02		209479 _at	6C	0.02
211395 _x_at	6C	0.02		202449 _s_at	6C	0.02
209406 _at	6C	0.02		208637 _x_at	6C	0.02
226181 _at	6C	0.02		209154 _at	6C	0.02
209398 _at	6C	0.02		201178 _at	6C	0.02
79005 _at	6C	0.02		203556 _at	6C	0.02
219356 _s_at	6C	0.02		216408 _at	6C	0.02
218454 _at	6C	0.02		212268 _at	6C	0.02
221311 _x_at	6C	0.02		227647 _at	6C	0.02
223234 _at	6C	0.02		222980 _at	6C	0.02
202297 _s_at	6C	0.02		204834 _at	6C	0.02
218383 _at	6C	0.02		205269 _at	6C	0.02
213581 _at	6C	0.02		210904 _s_at	6C	0.02
205788 _s_at	6C	0.02		213918 _s_at	6C	0.02
203132 _at	6C	0.02		211681 _s_at	6C	0.02
204908 _s_at	6C	0.02		202393 _s_at	6C	0.02
225981 _at	6C	0.02		223501 _at	6C	0.02
206219 _s_at	6C	0.02		201649 _at	6C	0.02
218769 _s_at	6C	0.02		201090 _x_at	6C	0.02
218288 _s_at	6C	0.02		222592 _s_at	6C	0.02
204512 _at	6C	0.02		217301 _x_at	6C	0.02
210835 _s_at	6C	0.02		212467 _at	6C	0.02
200864 _s_at	6C	0.02		203087 _s_at	6C	0.02
202510 _s_at	6C	0.02		217811 _at	6C	0.02
201379 _s-at	6C	0.02		226151 _x_at	6C	0.02
201471 _s_at	6C	0.02		212681 _at	6C	0.02
218854 _at	6C	0.02		218419 _s_at	6C	0.02
202902 _s_at	6C	0.02		201924 _at	6C	0.02
202602 _s_at	6C	0.02		243403 _x_at	6C	0.02
208643 _s_at	6C	0.02		212989 _at	6C	0.02
201798 _s_at	6C	0.02		205425 _at	6C	0.02
201369 _s_at	6C	0.02		212833 _at	6C	0.02
222688 _at	6C	0.02		212266 _s_at	6C	0.02
213746 _s_at	6C	0.02		218520 _at	6C	0.02
201196 _s_at	6C	0.02		223727 _at	6C	0.02
204068 _at	6C	0.02		214049 _x_at	6C	0.02
1552486 _s_at	6C	0.02		207426 _s_at	6C	0.02
211207 _s_at	6C	0.02		222955 _s_at	6C	0.02
222631 _at	6C	0.02		201960 _s_at	6C	0.02
213501 _at	6C	0.02		208658 _at	6C	0.02
223350 _x_at	6C	0.02		212034 _s_at	6C	0.02
210538 _s_at	6C	0.02		1557067 _s_at	6C	0.02
208824 _x_at	6C	0.02		203960 _s_at	6C	0.02
206834 _at	6C	0.02		223227 _at	6C	0.02
218398 _at	6C	0.02		205105 _at	6C	0.02
208436 _s_at	6C	0.02		219351 _at	6C	0.02
217981 _s_at	6C	0.02		203471 _s_at	6C	0.02
218733 _at	6C	0.02		206562 _s_at	6C	0.02
225177 _at	6C	0.02		205707 _at	6C	0.02
202878 _s_at	6C	0.02		226544_ x_at	6C	0.02
202124 _s_at	6C	0.02		228747 _at	6C	0.02
201781 _s_at	6C	0.02		217858 _s_at	6C	0.02
219209 _at	6C	0.02		201059 _at	6C	0.02
202660 _at	βc	0.02		210001 _s_at	6C	0.02
202787 _s_at	6C	0.02		218156 _s_at	6C	0.02

200804 _at	-6C	0.02
213045 _at	6C	0.02
217755 _at	6C	0.02
200778 _s_at	6C	0.02
216547 _at	6C	0.02
218066 _at	6C	0.02
202532 _s_at	6C	0.02
217552 _x_at	6C	0.02
210145 _at	6C	0.02
212378 _at	6C	0.02
214377 _s_at	6C	0.02
201991 _s_at	6C	0.02
212782 _x_at	6C	0.02
203319 _s_at	6C	0.02
222983 _s_at	6C	0.02
200817 _x_at	6C	0.02
217978 _s_at	6C	0.02
219673 _at	6C	0.02
225364 _at	6C	0.02
202930 _s__at	6C	0.02
216205 _s_at	6C	0.02
208901 _s_at	6C	0.02
203420 _at	6C	0.02
226970 _at	6C	0.02
210097 _s_at	6C	0.02
207643 _s_at	6C	0.02
202298 _at	6C	0.02
52164 _at	6C	0.02
209943 _at	6C	0.02
223230 _at	6C	0.02
200057 _s_at	6C	0.02
218189 __s_at	6C	0.02
212465 "_at	6C	0.02
224608 _s_at	6C	0.02
233878 _s_at	6C	0.02
201627 _s_at	6C	0.02
212307 _s_at	6C	0.02
208486 _at	6C	0.02
227811 _at	6C	0.02
213579 _s_at	6C	0.02
201546 _at	6C	0.02
203487 _s_at	6C	0.02
220248 _x_at	6C	0.02
222642 _s_at	6C	0.02
225032 _at	6C	0.02
211025 _x_at	6C	0.02
210088 _x_at	6C	0.02
203732 _at	6C	0.02
218696 _at	6C	0.02
220173 _at	6C	0.02
218090 _s_at	6C	0.02
200626 _s_at	6C	0.02
203514 _at	6C	0.02
208685 _x_at	6C	0.02
200837 _at	6C	0.02
212453 _at	6C	0.02
233124 _s_at	6C	0.02
212440 _at	6C	0.02
232229 _at	6C	0.02
215159 _s_at	6C	0.02
201685 _s_at	6C	0.02
71933 _at	6C	0.02
225694 _at	βc	0.02
221744 _at	6C	0.02
207957 _s_at	6C	0.02
37986 _at	6C	0.02
207289 _at	6C	0.02
225297 _at	6C	0.02
AFFX- HUMGAP DH/		
M33197	6C	0.02
229390 _at	6C	0.02
226956 _at	6C	0.02
226996 _at	6C	0.02
239598 _s_at	6C	0.02
204193 _at	6C	0.02
203879 _at	6C	0.02
222467 __s_at	6C	0.02
203321 _s_at	6C	0.02
204396 _s_at	6C	0.02
220746 _s_at	6C	0.02
1557915 _s_at	6C	0.02
200665 _s_at	6C	0.02
201040 __at	6C	0.02
201065 _s_at	6C	0.02
218095 _s_at	6C	0.02
202471 _s_at	6C	0.02
225390 _s_at	6C	0.02
203044 _at	6C	0.02
222912 __at	6C	0.02
207794 _at	6C	0.02
220925 _at	6C	0.02
233575 _s_at	6C	0.02
222731 _at	6C	0.02
222067 _x_at	6C	0.02
201760 _s_at	6C	0.02
204544 _at	6C	0.02
201052 _s_at	6C	0.02
213224 _s_at	6C	0.02
204333 _s_at	6C	0.02
217956 _s_at	6C	0.02
204265 _s_at	6C	0.02
210152 _at	6C	0.02
200738 _s_at	6C	0.02
200654 _at	6C	0.02
203801 _at	6C	0.02
202560 _s_at	6C	0.02
222934 _s_at	6C	0.02
218443 _s_at	6C	0.02
209150 _s_at	6C	0.02
200017 _at	6C	0.02
212072 _s_at	6C	0.02
205861 _at	6C	0.02
222537 _s_at	6C	0.02
201494 _at	6C	0.02
241820 __at	6C	0.02
202688 _at	6C	0.02
214290 __s_at	6C	0.02
211961 _s_at	6C	0.02
226385 _s_at	6C	0.02
201460 _at	6C	0.02
200638 _s_at	6C	0.02
201301 _s_at	6C	0.02
208753 _s_at	6C	0.02
201526 _at	6C	0.02
224692 _at	6C	0.02
225019 _at	6C	0.02
200602 _at	6C	0.02
210878 _s_at	6C	0.02

Probe	Condition	Value	Probe	Condition	Value
229666_s_at	-Sc	0.02	220146_at	6C	0.02
1563088_a_at	6C	0.02	201057_s_at	6C	0.02
217752_s_at	6C	0.02	201336_at	6C	0.02
203652_at	6C	0.02	202855_s_at	6C	0.02
212539_at	6C	0.02	1569887_a_at	6C	0.02
202951_at	6C	0.02	212060_at	6C	0.02
222808_at	6C	0.02	212791_at	6C	0.02
1553043_a_at	6C	0.02	241803_s_at	6C	0.02
203024_s_at	6C	0.02	200058_s_at	6C	0.02
208923_at	6C	0.02	216652_s_at	6C	0.02
200722_s_at	6C	0.02	1553533_at	6C	0.02
208010_s_at	6C	0.02	208308_s_at	6C	0.02
235683_at	6C	0.02	239381_at	6C	0.02
219724_s_at	6C	0.02	234486_at	6C	0.02
206183_s_at	6C	0.02	206278_at	6C	0.02
225649_s_at	6C	0.02	203497_at	6C	0.02
228569_at	6C	0.02	222490_at	6C	0.02
217961_at	6C	0.02	210284_s_at	6C	0.02
202422_s_at	6C	0.02	202880_s_at	6C	0.02
202387_at	6C	0.02	210754_s_at	6C	0.02
208485_x_at	6C	0.02	1568954_s_at	6C	0.02
1552942_at	6C	0.02	217794_at	6C	0.02
211542_x_at	6C	0.02	200092_s_at	6C	0.02
222673_x_at	6C	0.02	208933_s_at	6C	0.02
209476_at	6C	0.02	213292_s_at	6C	0.02
201074_at	6C	0.02	214091_s_at	6C	0.02
203026_at	6C	0.02	203932_at	6C	0.02
210205_at	6C	0.02	221776_s_at	6C	0.02
1553582_a_at	6C	0.02	214519_s_at	6C	0.02
229304_s_at	6C	0.02	221500_s_at	6C	0.02
227964_at	6C	0.02	235032_at	6C	0.02
214853_s_at	6C	0.02	212899_at	6C	0.02
207439_s_at	6C	0.02	224374_s_at	6C	0.02
225662_at	6C	0.02	219164_s_at	6C	0.02
212388_at	6C	0.02	220099_s_at	6C	0.02
220661_s_at	6C	0.02	204613_at	6C	0.02
207777_s_at	6C	0.02	202896_s_at	6C	0.02
217845_x_at	6C	0.02	200800_s_at	6C	0.02
200948_at	6C	0.02	1567107_s_at	6C	0.02
203039_s_at	6C	0.02	201647_s_at	6C	0.02
225466_at	6C	0.02	201422_at	6C	0.02
207788_s_at	6C	0.02	201864_at	6C	0.02
203659_s_at	6C	0.02	220937_s_at	6C	0.02
207724_s_at	6C	0.02	206174_s_at	6C	0.02
220306_at	6C	0.02	218102_at	6C	0.02
200729_s_at	6C	0.02	200759_x_at	6C	0.02
226994_at	6C	0.02	200633_at	6C	0.02
214273_x_at	6C	0.02	219575_s_at	6C	0.02
203307_at	6C	0.02	209890_at	6C	0.02
223598_at	6C	0.02	1553153_at	6C	0.02
207691_x_at	6C	0.02	211066_x_at	6C	0.02
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201745_at	6C	0.02	222547_at	6C	0.02
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31845_at	6C	0.02	203317_at	6C	0.03

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202448_s_at	6C	0.04		200963_x_at	6C	0.04
201376_s_at	6C	0.04		228029_at	6C	0.04
224600_at	6C	0.04		202209_at	6C	0.04
226050_at	6C	0.04		200618_at	6C	0.04
203242_s_at	6C	0.04		212762_s_at	6C	0.04
205357_s_at	6C	0.04		216088_s_at	6C	0.04
200926_at	βc	0.04		225222_at	6C	0.04
218400_at	6C	0.04		208634_s_at	6C	0.04
209474_s_at	6C	0.04		201563_at	6C	0.04
226184_at	6C	0.04		213004_at	6C	0.04
218163_at	6C	0.04		228617_at	6C	0.04

205329_s_at	6C	0.04	225579_at	6C	0.04
204513_s_at	6C	0.04	219049_at	6C	0.04
221269_s_at	6C	0.04	205285_s_at	6C	0.04
218714_at	6C	0.04	213483_at	6C	0.04
200083_at	6C	0.04	212587_s_at	6C	0.04
218618_s_at	6C	0.04	200091_s_at	6C	0.04
200598_s_at	6C	0.04	203457_at	6C	0.04
218807_at	6C	0.04	1553417_at	6C	0.04
208674_x_at	6C	0.04	203120_at	6C	0.04
226208_at	6C	0.04	215207_x_at	6C	0.04
205922_at	6C	0.04	204473_s_at	6C	0.04
218007_s_at	6C	0.04	218374_s_at	6C	0.04
201016_at	6C	0.04	213506_at	6C	0.04
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232680_at	6C	0.04	212517_at	6C	0.04
200827_at	6C	0.04	213590_at	6C	0.04
223144_s_at	6C	0.04	208799_at	6C	0.04
224642_at	6C	0.04	204332_s_at	6C	0.04
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231756_at	6C	0.04	213491_x_at	6C	0.04
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213208_at	6C	0.04	202739_s_at	6C	0.04
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218645_at	6C	0.04	219287_at	6C	0.04
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223209_s_at	6C	0.04	207391_s_at	6C	0.04
201922_at	6C	0.04	200000_s_at	6C	0.04
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225411_at	6C	0.04	202817_s_at	6C	0.04
217803_at	6C	0.04	207624_s_at	6C	0.04
215111_s_at	6C	0.04	202144_s_at	6C	0.04
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221492_s_at	6C	0.04	212625_at	6C	0.04
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207908_at	6C	0.04		1553750_a_at	7F	2.068758e-03
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200918_s_at	6C	0.04		230707_at	7F	2.197488e-03
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228578_at	7F	1.175441e-03		242706_s_at	7F	3.980496e-03
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223014_at	7F	1.518595e-03		222881_at	7F	4.42307e-03
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228226_s_at	7F	1.676857e-03		233080_s_at	7F	4.508852e-03
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203891_s_at	7F	5.213225e-03
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218126_at	7F	5.283608e-03
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209761_s_at	7F	5.395689e-03
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220248_x_at	7F	5.436412e-03
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1553703_at	7F	6.09891e-03
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223271_s_at	7F	6.48693e-03
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203620_s_at	7F	9.330043e-03

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208488_s_at	7F	9.853715e-03
201758_at	7F	9.86269e-03
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222616_s_at	7F	9.952609e-03
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37425_g_at	7F	0.01
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222587_s_at	7F	0.01
200011_s_at	7F	0.01
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236614_at	7F	0.01
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224930_x__at	7F	0.04		202156_s_at	7G	5.11e-04
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209479 _at	7G	2.699212e-03		204220_ at	7G	3.892751e-03
1553594 _a_at	7G	2.700196e-03		204849 _at	7G	3.910303e-03
200851 _s_at	7G	2.720034e-03		1558136 _s_at	7G	3.915475e-03
1552734 _at	7G	2.737748e-03		206488 _s_at	7G	3.931093e-03
202124 _s_at	7G	2.749338e-03		214988 _s_at	7G	3.944372e-03
224560 _at	7G	2.763595e-03		220248 _x_at	7G	3.973015e-03
224676 _at	7G	2.772513e-03		222728 _s_at	7G	3.988415e-03
210740 _s_at	7G	2.791039e-03		218422 _s_at	7G	3.992025e-03
228099 _at	7G	2.801191e-03		202026 _at	7G	4.000259e-03
207966 _s_at	7G	2.818099e-03		212919 _at	7G	4.018331e-03
1555780 _a_at	7G	2.82043e-03		212397 _at	7G	4.042751e-03
219234 _x_at	7G	2.84707e-03		203690 _at	7G	4.054399e-03
225334 _at	7G	2.848614e-03		37986 _at	7G	4.061278e-03
223014 _at	7G	2.854823e-03		202092 _s_at	7G	4.103606e-03
202033 _s_at	7G	2.859225e-03		202277 _at	7G	4.172589e-03
235653 _s_at	7G	2.863675e-03		201898 _s_at	7G	4.18978e-03
213352 _at	7G	2.864835e-03		209515 _s_at	7G	4.193598e-03
225852 _at	7G	2.875419e-03		200864 _s_at	7G	4.208059e-03
208990 _s_at	7G	2.899081e-03		226763 _at	7G	4.22235e-03
223075 _s_at	7G	2.930571e-03		200684 _s_at	7G	4.237933e-03
204527 _at	7G	2.930719e-03		224730 _at	7G	4.251208e-03
203620_ s_at	7G	2.937521e-03		201075 _s_at	7G	4.260801e-03
214048 _at	7G	2.96066e-03		208825 _x_at	7G	4.287251e-03
222652 _s_at	7G	2.971575e-03		225351 _at	7G	4.294671e-03
201901 _s_at	7G	2.977288e-03		223380 _s_at	7G	4.342403e-03
210840 _s_at	7G	2.97952e-03		220287 _at	7G	4.350997e-03
215646 _s_at	7G	2.981381e-03		203544 _s_at	7G	4.355691e-03
203669 _s_at	7G	2.983935e-03		218683 _at	7G	4.397762e-03
201408 _at	7G	2.997337e-03		200976 _s_at	7G	4.411401e-03
222408 _s_at	7G	3.061643e-03		201104 _x_at	7G	4.425808e-03
215933 _s_at	7G	3.089145e-03		244268 _x_at	7G	4.430358e-03
226786 _at	7G	3.133372e-03		226239 _at	7G	4.434928e-03
200940 _s_at	7G	3.145501e-03		218156 _s_at	7G	4.448925e-03
209015 _s_at	7G	3.172354e-03		33322 _i_at	7G	4.473218e-03
201628 _s_at	7G	3.177497e-03		224754 _at	7G	4.475312e-03
220173 _at	7G	3.196469e-03		223566 _s_at	7G	4.480779e-03
202838 _at	7G	3.204864e-03		222574 _s_at	7G	4.486754e-03
222697 _s_at	7G	3.21517e-03		210695 _s_at	7G	4.523609e-03
220746 _s_at	7G	3.215912e-03		204045 _at	7G	4.538201e-03
201908 _at	7G	3.217173e-03		33323 _r_at	7G	4.541969e-03
227740 _at	7G	3.225991e-03		242706 _s_at	7G	4.571985e-03
203105 _s_at	7G	3.256672e-03		218583 _s_at	7G	4.588818e-03
212616 _at	7G	3.267421e-03		214743 _at	7G	4.607314e-03
238860 _at	7G	3.280843e-03		201917 _s_at	7G	4.650587e-03
201311 _s_at	7G	3.314954e-03		210756 _s_at	7G	4.66251e-03
218701 _at	7G	3.315001e-03		244495 _x_at	7G	4.665198e-03
208892 _s_at	7G	3.33511e-03		209306 _s_at	7G	4.674824e-03
223111 _x_at	7G	3.338351e-03		202822 _at	7G	4.676585e-03
208663 _s_at	7G	3.448971e-03		205105 _at	7G	4.69456e-03
222442 _s_at	7G	3.453233e-03		203320 _at	7G	4.706835e-03
202532 _s_at	7G	3.462748e-03		200927 _s_at	7G	4.722341e-03
212192 _at	7G	3.468153e-03		225658 _at	7G	4.724503e-03
216993 _s_at	7G	3.53807e-03		225267 _at	7G	4.776906e-03
200848 _at	7G	3.561366e-03		205961 _s_at	7G	4.789523e-03
222657 _s_at	7G	3.582237e-03		211240 _x_at	7G	4.835823e-03
202860 _at	7G	3.583862e-03		222496 _s_at	7G	4.868025e-03
207956 _x_at	7G	3.662877e-03		201816 _s_at	7G	4.876981e-03
218521 _s_at	7G	3.669462e-03		1568780 _at	7G	4.897193e-03
203883 _s_at	7G	3.67962e-03		226300 _at	7G	4.921213e-03
204183 _s_at	7G	3.693068e-03		202829 _s_at	7G	4.958157e-03
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212552 _at	7G	3.832307e-03		202811 _at	7G	4.968832e-03
205078 _at	7G	3.842742e-03		208420 _x_at	7G	4.987676e-03

218685 _s_at	7G	4.996219e-03
218884 _s_at	7G	5.033783e-03
212683 _at	7G	5.041782e-03
219281 _at	7G	5.067091e-03
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224936 _at	7G	5.108445e-03
224640 _at	7G	5.118933e-03
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205763 _s_at	7G	5.165121e-03
210499 _s_at	7G	5.176601e-03
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212726 _at	7G	5.243847e-03
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232843 _s_at	7G	5.432404e-03
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203803 _at	7G	5.545464e-03
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205187 _at	7G	5.5788e-03
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1565162 _s_at	7G	5.621099e-03
201454 _s_at	7G	5.658106e-03
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1552480 _s_at	7G	5.744115e-03
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209115 _at	7G	5.847314e-03
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226144 _at	7G	5.87234e-03
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221579 _s_at	7G	5.920907e-03
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218426 _s_at	7G	5.945642e-03
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219952 _s_at	7G	5.998747e-03
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229251 _s_at	7G	6.040244e-03
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226762 _at	7G	6.113877e-03
222199 _s_at	7G	6.14118e-03
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216231 _s_at	7G	6.144513e-03
233230 _s_at	7G	6.166232e-03
208852 _s_at	7G	6.181289e-03
208786 _s_at	7G	6.202432e-03
202050 _s_at	7G	6.215552e-03
208729 _x_at	7G	6.235528e-03
204351 _at	7G	6.253468e-03
218517 _at	7G	6.327981e-03
32029 _at	7G	6.368299e-03
209060 _x_at	7G	6.378949e-03
213226 _at	7G	6.390456e-03
205140 _at	7G	6.396169e-03
223199 _at	7G	6.401787e-03
220187 _at	7G	6.420797e-03
218855 _at	7G	6.439859e-03
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221478 _at	7G	6.556515e-03
223044 _at	7G	6.559201e-03
212124 _at	7G	6.561054e-03
35150 _at	7G	6.564417e-03
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226376 _at	7G	6.600229e-03
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209252 _at	7G	6.679008e-03
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214730 _s_at	7G	6.740579e-03
220044 _x_at	7G	6.742896e-03
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204278 _s_at	7G	6.851292e-03
208878 _s_at	7G	6.854999e-03
201285 _at	7G	6.864023e-03
213958 _at	7G	6.889728e-03
213940 _s_at	7G	6.907691e-03
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224790 _at	7G	6.94545e-03
219023 _at	7G	6.963252e-03
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212251 _at	7G	7.003329e-03
218004 _at	7G	7.028753e-03
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210543 _s_at	7G	7.193038e-03
209011 _at	7G	7.213132e-03
212224 _at	7G	7.235978e-03
227741 _at	7G	7.255443e-03
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205248 _at	7G	7.269026e-03
202745 _at	7G	7.270596e-03

224651_at	7G	7.T4'2"SX8e-03	203535_at	7G	8.766418e-03
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200035_at	7G	7.371156e-03	201133_s_at	7G	8.853643e-03
201118_at	7G	7.37319e-03	211081_s_at	7G	8.860602e-03
201395_at	7G	7.376066e-03	209636_at	7G	8.876074e-03
213154_s_at	7G	7.376513e-03	201945_at	7G	8.879773e-03
208785_s_at	7G	7.393118e-03	207564_x_at	7G	8.891543e-03
223268_at	7G	7.398776e-03	235348_at	7G	8.893457e-03
202545_at	7G	7.412623e-03	227276_at	7G	8.89493e-03
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AFFX-			211571_s_at	7G	8.9057e-03
hum_alu_at	7G	7.496815e-03	219132_at	7G	8.933895e-03
221804_s_at	7G	7.528905e-03	224797_at	7G	8.935349e-03
224984_at	7G	7.559275e-03	218842_at	7G	8.93689e-03
205191_at	7G	7.592533e-03	205895_s_at	7G	8.952419e-03
202161_at	7G	7.61666e-03	212207_at	7G	8.966703e-03
226242_at	7G	7.663158e-03	223106_at	7G	8.99941e-03
222212_s_at	7G	7.675786e-03	203202_at	7G	9.005831e-03
209318_x_at	7G	7.677573e-03	213000_at	7G	9.027035e-03
205931_s_at	7G	7.73852e-03	223281_s_at	7G	9.035259e-03
211352_s_at	7G	7.738984e-03	226510_at	7G	9.035399e-03
206649_s_at	7G	7.751933e-03	221471_at	7G	9.07607e-03
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210466_s_at	7G	7.776495e-03	218962_s_at	7G	9.098223e-03
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217862_at	7G	7.811456e-03	214869_x_at	7G	9.114459e-03
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201299_s_at	7G	7.836687e-03	224853_at	7G	9.181536e-03
209599_s_at	7G	7.846628e-03	201032_at	7G	9.185321e-03
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232001_at	7G	8.208539e-03	218268_at	7G	9.535328e-03
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215739_s_at	7G	8.544756e-03	202654_x_at	7G	9.968632e-03
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217297_s_at	7G	8.606691e-03	221472_at	7G	9.994508e-03
202360_at	7G	8.671719e-03	229560_at	7G	0.01
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201446_s_at	7G	0.01		228800_x_at	7G	0.01
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201151_s_at	7G	0.01		226026_at	7G	0.01
217866_at	7G	0.01		218522_s_at	7G	0.01
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217122	_s_at	7G	0.02	AFFX-HSACO	7/		
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208363	_s_at	7G	0.04		201995	_at	7G	0.04
226100	_at	7G	0.04		209203	_s_at	7G	0.04
220239	_at	7G	0.04		227647	_at	7G	0.04
201899	_s_at	7G	0.04		227029	_at	7G	0.04
221761	_at	7G	0.04		225359	_at	7G	0.04
207545	_s_at	7G	0.04		223010	_s_at	7G	0.04
33768	_at	7G	0.04		232964	_at	7G	0.04
219472	_at	7G	0.04		225246	_at	7G	0.04
239761	_at	7G	0.04		209667	_at	7G	0.04
208056	_s_at	7G	0.04		238465	_at	7G	0.04
222867	_s_at	7G	0.04		222841	_s_at	7G	0.04
201554	_x_at	7G	0.04		218056	_at	7G	0.04
1570410	_at	7G	0.04		201780	_s_at	7G	0.04
214875	_x_at	7G	0.04		213349	_at	7G	0.04
203034	_s_at	7G	0.04		203434	_s_at	7G	0.04
201366	_at	7G	0.04		219706	_at	7G	0.04
208923	_at	7G	0.04		208692	_at	7G	0.04
222980	_at	7G	0.04		201721	_s_at	7G	0.04
218972	_at	7G	0.04		222881	_at	7G	0.04
223809	_at	7G	0.04		1552652	_at	7G	0.04
208984	_x_at	7G	0.04		222529	_at	7G	0.04
211926	_s_at	7G	0.04		224627	_at	7G	0.04
202006	_at	7G	0.04		228373	_at	7G	0.04
202392	_s_at	7G	0.04		203077	_s_at	7G	0.04
223105	_s_at	7G	0.04		220046	_s_at	7G	0.04
226925	_at	7G	0.04		1559502	_s_at	7G	0.04
213127	_s_at	7G	0.04		213918	_s_at	7G	0.04
215043	_s_at	7G	0.04		212265	_at	7G	0.04
222623	_s_at	7G	0.04		217418	_x_at	7G	0.04
203316	_s_at	7G	0.04		226452	_at	7G	0.04
205603	_s_at	7G	0.04		1554493	_s_at	7G	0.04
54037	_at	7G	0.04		201623	_s_at	7G	0.04
223000	_s_at	7G	0.04		211745	_x_at	7G	0.04
215535	_s_at	7G	0.04		225073	_at	7G	0.04
206098	_at	7G	0.04		225043	_at	7G	0.04
201023	_at	7G	0.04		221020	_s_at	7G	0.04
208643	_s_at	7G	0.04		223559	_s_at	7G	0.04
201863	_at	7G	0.04		218292	_s_at	7G	0.04
221789	_x_at	7G	0.04		238765	_at	7G	0.04
204018	_x_at	7G	0.04		218474	_s_at	7G	0.04
207320	_x_at	7G	0.04		212116	_at	7G	0.04
201803	_at	7G	0.04		212286	_at	7G	0.04
222127	_s_at	7G	0.04		212744	_at	7G	0.04
212369	_at	7G	0.04		223016	_x_at	7G	0.04
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201595	_s_at	7G	0.04		204980	_at	7G	0.04
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218185	_s_at	7G	0.04		228087	_at	7G	0.04
200686	_s_at	7G	0.04		202352	_s_at	7G	0.04
232725	_s_at	7G	0.04		218806	_s_at	7G	0.04
201417	_at	7G	0.04		218838	_s_at	7G	0.04
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201771	_at	7G	0.04		202131	_s_at	7G	0.04

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210981_s_at    7G    0.04
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232183_at      7G    0.04
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208924_at      7G    0.04
39705_at       7G    0.04
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